

Model #	Frankonia Product Description
Frankonia EMV - RF-Power Amplifiers	
RF-Power Amplifiers: 10 kHz - 300 MHz Frequency Range	
FLL-25	RF-Power-Amplifier Frequency-range: 100kHz to 250MHz Output Power: 25 Watt
FLL-25A	RF-Power Amplifier Frequency-range: 10kHz to 230MHz Output Power: 25 Watt
FLL-75	RF-Power Amplifier Frequency-range: 100kHz to 300MHz Output Power: 75 Watt
FLL-75A	RF-Power Amplifier Frequency-range: 150kHz to 230MHz Output Power: 75 Watt
FLL-100A	RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output-Power: 100W
VLL-140	RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 140 Watt
VLL-300	RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 300 Watt
VLL-500L	RF-Power Amplifier Frequency-range: 100kHz to 200MHz Output Power: 500 Watt
VLL-600	RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 600 Watt
VLL-1000L	RF-Power Amplifier Frequency-range: 100kHz to 200MHz Output Power: 1000 Watt
VLL-1300	RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 1300 Watt
VLL-2000L	RF-Power Amplifier Frequency-range: 100kHz to 200MHz Output Power: 2000 Watt
VLL-2500	RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 2500 Watt
VLL-3500L	RF-Power Amplifier Frequency-range: 100kHz to 200MHz Output Power: 3500 Watt
VLL-5000	RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 5000 Watt
VLL-7000L	RF-Power Amplifier Frequency-range: 100kHz to 200MHz Output Power: 7000 Watt
VLL-10000	RF-Power Amplifier Frequency-range: 10kHz to 250MHz Output Power: 10000 Watt
VLL-12000L	RF-Power Amplifier Frequency-range: 100kHz to 200MHz Output Power: 12000 Watt

RF-Power Amplifiers: 10 kHz - 400 MHz Frequency Range	
VLC-60	RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 60 Watt
FLC-75	RF-Power Amplifier Frequency range: 100kHz to 400MHz Output Power: 75 Watt
VLC-110	RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 110 Watt
FLC-180	RF-Power Amplifier Frequency range: 1MHz to 400MHz Output Power: 180 Watt
VLC-220	RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 220 Watt
VLC-400	RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 400 Watt
VLC-600	RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 600 Watt
VLC-1200	RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 1200 Watt
VLC-2000	RF-Power Amplifier Frequency-range: 10kHz to 400MHz Output Power: 2000 Watt
RF-Power Amplifiers: 10 kHz - 1000 MHz Frequency Range	
VLLH-25	RF-Power Amplifier Frequency-range: 10kHz to 1000MHz Output Power: 25 Watt
VLLH-70	RF-Power Amplifier Frequency-range: 10kHz to 1000MHz Output Power: 70 Watt
VLLH-150	RF-Power Amplifier Frequency-range: 10kHz to 1000MHz Output Power: 150 Watt
VLLH-260	RF-Power Amplifier Frequency-range: 10kHz to 1000MHz Output Power: 260 Watt
VLLH-800	RF-Power Amplifier Frequency-range: 10kHz to 1000MHz Output Power: 800 Watt

RF-Power Amplifiers: 1 MHz - 1000 MHz Frequency Range	
FLH-4A	RF-Power Amplifier Frequency-range: 1MHz to 1000MHz Output Power: 4 Watt
FLH-50A	RF-Power Amplifier Frequency-range: 1MHz to 1000MHz Output Power: 50 Watt
FLH-100A	RF-Power Amplifier Frequency-range: 1MHz - 1000Mhz Output Power: 100 Watts
FLH-100C	RF-Power Amplifier Frequency-range: 20MHz - 500MHz Power-output: 100W
FLH-200C	RF-Power Amplifier Type: FLH-200C Frequency-range: 20MHz - 500MHz Power-output: 200W
RF-Power Amplifiers: 20 MHz - 1GHz Frequency Range	
FLH-20B	RF-Power Amplifier Frequency-range: 20MHz - 1GHz Output Power: 20 Watts
FLH-70B	RF-Power Amplifier Frequency-range: 20MHz - 1GHz Output Power: 70 Watts
VLH-90B	RF-Power Amplifier Frequency-range: 20MHz to 1GHz Output Power: 90 Watt
VLH-160B	RF-Power Amplifier Frequency-range: 20MHz to 1GHz Output Power: 160 Watt
FLH-200B	RF-Power Amplifier Frequency-range: 20MHz - 1GHz Power-output: 200W
VLH-320B	RF-Power Amplifier Frequency-range: 20MHz to 1GHz Output Power: 320 Watt
VLH-600B	RF-Power Amplifier Frequency-range: 20MHz to 1GHz Output Power: 600 Watt
RF-Power Amplifiers: 80 MHz - 1GHz Frequency Range	
VLH-100B1	RF-Power Amplifier Frequency range: 80MHz to 1000MHz Output Power: 100 Watt
FLH-200B1	RF-Power Amplifier Frequency-range: 80MHz - 1000MHz Power-output: 200W
VLH-400B1	RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 400 Watt
FLH-500B1	RF-Power Amplifier Frequency-range: 80MHz - 1000MHz Output Power: 500W
VLH-700B1	RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 700 Watt
VLH-1200B1	RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 1200 Watt
VLH-1400B1	RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 1400 Watt

VLH-1700B1	RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 1700 Watt
VLH-2000B1	RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 2000 Watt
VLH-3500B1	RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 3000 Watt
5225	RF-Power Amplifier Frequency-range: 80MHz to 1000MHz Output Power: 200 Watt
5273	RF-Power Amplifier Frequency-range: 1GHz to 3GHz Max. Output: 70 Watt
RF-Power Amplifiers: 0.8GHz - 2GHz Frequency Range	
FLG-7A	RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 7W
FLG-12A	RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 12W
FLG-25A	RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 25W
FLG-50A	RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 50W
FLG-120A	RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 120W
FLG-200A	RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 200W
FLG-300A	RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 300W
FLG-500A	RF-Power Amplifier Frequency Range: 0.8GHz - 2GHz Maximum Output: 500W

RF-Power Amplifiers: 0.8GHz - 3.6GHz Frequency Range	
FLG-10C	RF-Power Amplifier Frequency Range: 1GHz - 3GHz Maximum Output: 10W
FLG-30C	RF-Power Amplifier Frequency Range: 1GHz - 3GHz Maximum Output: 30W
VLG-40CA	RF-Power Amplifier Frequency range: 0.8GHz to 3.2GHz Output Power: 40 Watt
VLG-70CA	RF-Power Amplifier Frequency range: 0.8GHz to 3.2GHz Output Power: 70 Watt
VLG-120CA	RF-Power Amplifier Frequency-range: 0.8GHz to 3.2GHz Output Power: 120 Watt
VLG-220CA	RF-Power Amplifier Frequency-range: 0.8GHz to 3.2GHz Output Power: 220 Watt
VLG-450CA	RF-Power Amplifier Frequency-range: 0.8GHz to 3.2GHz Output Power: 450 Watt
VLG-1000CA	RF-Power Amplifier Frequency-range: 0.8GHz to 3.2GHz Output Power: 1000 Watt
FLG-9F	RF-Power Amplifier Frequency Range: 2GHz - 6GHz Maximum Output: 9W
FLG-15F	RF-Power Amplifier Frequency Range: 2GHz - 6GHz Maximum Output: 15W
FLG-30F	RF-Power Amplifier Frequency Range: 2GHz - 6GHz Maximum Output: 30W
FLG-50F	RF-Power Amplifier Frequency Range: 2GHz - 6GHz Maximum Output: 50W
FLG-100F	RF-Power Amplifier Frequency Range: 2GHz - 6GHz Maximum Output: 100W
RF-Power Amplifiers: 2GHz - 6GHz Frequency Range	
VLG-15F	RF-Power Amplifier Frequency range: 2GHz to 6GHz Output Power: 15 Watt
VLG-30F	RF-Power Amplifier Frequency range: 2GHz to 6GHz Output Power: 30 Watt
VLG-55F	RF-Power Amplifier Frequency range: 2GHz to 6GHz Output Power: 55 Watt
VLG-100F	RF-Power Amplifier Frequency-range: 2GHz to 6GHz Output Power: 100 Watt
VLG-180F	RF-Power Amplifier Frequency-range: 2GHz to 6GHz Output Power: 180 Watt
RF-Power Amplifiers: 0.7GHz - 6GHz Frequency Range	
FLG-15G	RF-Power Amplifier Frequency Range: 0,7GHz - 6GHz Power output:: 15W

FLG-25G	RF-Power Amplifier Frequency Range: 0,7GHz - 6GHz Power output:: 25W
FLG-50G	RF-Power Amplifier Frequency Range: 0,7GHz - 6GHz Power output:: 50W
FLG-100G	RF-Power Amplifier Frequency Range: 0,7GHz - 6GHz Power output:: 100W
FLG-200G	RF-Power Amplifier Frequency Range: 0,7GHz - 6GHz Power output:: 200W
RF-Power Amplifiers: 0.8GHz - 6GHz	
VLG-40/15G	RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 40/15 Watt
VLG-40/30G	RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 40/30 Watt
VLG-70/15G	RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 70/15 Watt
VLG-70/30G	RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 70/30 Watt
VLG-70/55G	RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 70/55 Watt
VLG-120/30G	RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 120/30 Watt
VLG-120/55G	RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 120/55 Watt
VLG-120/100G	RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 120/55 Watt
VLG-220/55G	RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 220/55 Watt
VLG-220/100G	RF-Power Amplifier Frequency-range: 0.8GHz to 6GHz Output Power: 220/100 Watt
Absorbers	
PF30	PF30 61x61cm
PF40	PF40 61x61cm
PF60	PF60 61x61cm
Flat Absorbers	Flat absorbers 61x61cmx10cm
Floor walkable absorbers	Floor walk able absorbers 122x61cmx48cm Attenuation: 23 dB min at 500Mhz and 30 dB min at 1GHz

AUDIO AND VIDEO SYSTEMS	
FAS 3.1	EMC hardened Audio system as duplex intercom and audio monitoring for electrical field-strength up to 225V/m, Frequency: 50Hz to 20kHz (HiFi-quality)
FDR-4	DVD-Video Recorder DVD-Recorder for up to 4 cameras of Type ECS or FCS Stores on internal, external HD or on DVD Possibility to access through Ethernet Possibility to store videos in dependence of events or special details. includes Software
FMC-03	EMC hardened Video system for electrical field strength up to 200V/m, consisting of: <ul style="list-style-type: none"> - 1 pc. Color Camera, type FMC-03 - Image format PAL 4:3 - Optical zoom, 40x, - Resolution 570K Pixel - Integrated microphone - 1 pc. Camera-controller, type FBC-03 - optical input for the Video signal - VGA/DVI-output for the monitor - Control-buttons for the PAN/TILT unit - 1 pc. PAN/TILT-unit type FPT-03, remote-controlled by camera-controller, type FBC-03 - 2 pc. Battery-pack, type FPB-03 with power-supply optional: Power-supply, type FPS-03 for fixed installation - 1 pc. 4,3" Set-up monitor - 20m optical fiber, simplex, FSMA-FSMA - 1 pc. Camera tripod - 1 pc. fiber-optic feed-through for shielded rooms The Monitor is not included in the delivery. Useable are any VGA/DVI-monitors.
FMC-03HD	EMC hardened Video system for electrical field strength up to 200V/m, consisting of: <ul style="list-style-type: none"> - 1 pc. Color Camera, type FMC-03HD - Image format PAL 16:9, 30fps - Optical zoom, 20x, - Resolution 2 M Pixel - Integrated microphone - 1 pc. Camera-controller, type FBC-03 - optical input for the Video signal - VGA/DVI-output for the monitor - Control-buttons for the PAN/TILT unit - 1 pc. PAN/TILT-unit type FPT-03, remote-controlled by camera-controller, type FBC-03 - 2 pack Battery-pack, type FPB-03 with power-supply optional: Power-supply, type FPS-03 for fixed installation - 1 pc. 4,3" Set-up monitor - 20m optical fiber, simplex, FSMA-FSMA - 1 pc. Camera tripod - 1 pc. fiber-optic feed-through for shielded rooms The Monitor is not included in the delivery. Useable are any VGA/DVI-monitors.
OO906103	Camera Wall Holder

FMC-03/M	<p>EMC hardened Video system for electrical field-strength up to 200V/m, consisting of:</p> <ul style="list-style-type: none"> - 1 pc. Color Camera, type FMC-03 - Image format PAL 4:3 - Optical zoom, 40x, - Resolution 570K Pixel - Integrated microphone - 1 pc. Camera-controller, type FBC-03 - optical input for the Video signal - VGA/DVI-output for the monitor - Control-buttons for the PAN/TILT unit - 1 pc. PAN/TILT-unit type FPT-03, remote-controlled by camera-controller, type FBC-03 - 2 pc. Battery-pack, type FPB-03 with power-supply optional: Power-supply, type FPS-03 for fixed installation - 1 pc. 4,3" Set-up monitor - 20m optical fiber, simplex, FSMA-FSMA - 1 pc. Camera tripod - 1 pc. fiber-optic feed-through for shielded rooms <p>The Monitor is not included in the delivery. Useable are any VGA/DVI-monitors.</p>
FMC-03HD/M	<p>EMC hardened Video system for electrical field-strength up to 200V/m, consisting of:</p> <ul style="list-style-type: none"> - 1 pc. Color Camera, type FMC-03HD - Image format PAL 16:9, 30fps - Optical zoom, 20x, - Resolution 2 M Pixel - Integrated microphone - 1 pc. PAN/TILT-unit type FPT-03, remote-controlled by camera-controller, type FBC-03 - 2 pc. Battery-pack, type FPB-03 with power-supply optional: Power-supply, type FPS-03 for fixed installation - 1 pc. 4,3" Set-up monitor - 10m optical fiber, simplex, FSMA-FSMA - 20m optical fiber, simplex, FSMA-FSMA - 1 pc. Camera tripod - 1 pc. fiber-optic feed-through for shielded rooms <p>The Monitor is not included in the delivery. Useable are any VGA/DVI-monitors.</p>
FMC-TV42	<p>Flat screen TV 42"</p> <p>inputs: VGA, HDMI, a.o.</p> <p>resolution: Full-HD (1920x1080)</p> <p>integrated stereo speakers</p>
TEST-SYSTEM ACC. TO IEC/EN 61000-4-6: CIT-10	
CIT-10	<p>Compact Immunity Test System acc. to IEC/ EN 61000-4-6 and similar standards.</p> <p>Type: CIT-10/25</p> <p>Frequency range:</p> <p>Signal Generator: 10kHz to 400MHz, resolution: 1Hz</p> <p>RF-Power-Amplifier: 100kHz to 250MHz</p> <p>Amplitude modulation: 1Hz to 100kHz, 0 to 100%, resolution 0,5%</p> <p>Pulse modulation: 1Hz to 100kHz, 10% to 90%, resolution 1%</p> <p>Amplifier output power: 25W</p> <p>The compact instrument includes:</p> <ul style="list-style-type: none"> - Signal generator - Function generator - RF-power amplifier - RF-Voltage meter - Cable set - Control software for tests according EN 61000-4-6 <p>Integrated front panel display</p> <p>Connection by USB</p> <p>Harmonized Code 9031 8038</p> <p>Size 60x60x35cm 16kg</p>

CIT-10/75	<p>Compact Immunity Test System acc. to IEC/ EN 61000-4-6 and BCI-tests acc. to ISO 11452-4, MIL-STD-461E CS114, and similar standards Type: CIT-10/75 Frequency range: 10kHz to 400MHz, resolution: 1Hz Amplitude modulation: 1Hz to 100kHz, 0 to 100%, resolution 0,5% Pulse modulation: 1Hz to 100kHz, 10% to 90%, resolution 1% Amplifier output power: 100kHz - 400MHz, 75W Integrated front panel display The compact instrument includes:</p> <ul style="list-style-type: none"> - Signal generator - Function generator - RF-power amplifier - RF-Voltage meter - Directional coupler (optional) and 2-channel power meter for measurement of forward and reverse power - Cable set - Control software for tests acc. to EN 61000-4-6 <p>Connection by USB</p>
CIT-10/75A	<p>Compact Immunity Test System acc. to IEC/ EN 61000-4-6 and BCI-tests acc. to ISO 11452-4, MIL-STD-461E CS114, and similar standards Type: CIT-10/75 Frequency range: 10kHz to 400MHz, resolution: 1Hz Amplitude modulation: 1Hz to 100kHz, 0 to 100%, resolution 0,5% Pulse modulation: 1Hz to 100kHz, 10% to 90%, resolution 1% Amplifier output power: 10kHz-250MHz, 75W Integrated front panel display The compact instrument includes:</p> <ul style="list-style-type: none"> - Signal generator - Function generator - RF-power amplifier - RF-Voltage meter - Directional coupler (optional) and 2-channel power meter for measurement of forward and reverse power - Cable set - Control software for tests acc. to EN 61000-4-6 <p>Connection by USB</p>

CIT-10/75MIL	<p>Compact Immunity Test System acc. to IEC/ EN 61000-4-6, Namur, and BCI-tests acc. to MIL-STD-461E CS114, and similar standards Type: CIT-10/75 Frequency range: 10kHz to 400MHz, resolution: 1Hz Amplitude modulation: 1Hz to 100kHz, 0 to 100%, resolution 0,5% Pulse modulation: 1Hz to 100kHz, 10% to 90%, resolution 1% Amplifier output power: 10kHz-250MHz, 75W Integrated front panel display The compact instrument includes:</p> <ul style="list-style-type: none"> - Signal generator - Function generator - RF-power amplifier - RF-Voltage meter - Directional coupler (optional) and 2-channel power meter for measurement of forward and reverse power - Cable set - Control software for tests acc. to EN 61000-4-6 <p>Connection by USB</p>
CIT-10/W	<p>CIT-10/W acc. to IEC/EN 61000-4-6 and BCI-Tests acc. to ISO 11452-4, MIL-STD-461E CS114, and similar standards Type: CIT-10/ W (without RF-amplifier, without directional coupler, without 6dB-attenuator) Frequency range: 10kHz to 400MHz, resolution: 1Hz Amplitude modulation: 1Hz to 100kHz, 0 to 100%, resolution 0,5% Pulse modulation: 1Hz to 100kHz, 10% to 90%, resolution 1% The compact tester contains:</p> <ul style="list-style-type: none"> - Signal generator - Function generator - RF-voltage meter - 2-channel power meter for measurement of forward and reverse power - Cable kit - Control software for testing acc. to EN 61000-4-6 <p>Display of test data USB-interface</p>
CIT-DC	<p>Directional Coupler for CIT-10 (internally installed) for measurement of forward and reverse power. acc. to standard IEC/ EN 61000-4-6 (V4.0). For evaluation of compression/ saturation of the test system Frequency: 10kHz-400MHz Power: 200W Coupling: 40dB Harmonized Code 9031 8038 Shipping with CIT-10. 1.5kg</p>
DÂM 25W	<p>Attenuator 6dB, 25W consisting of:</p> <ul style="list-style-type: none"> 1 pc. Attenuator 1 pc. RF-cable BNC (m) - N (m) 1 pc. Adapter BNC (f) - N (m)
DAM 75W	<p>Attenuator 6dB, 75W consisting of:</p> <ul style="list-style-type: none"> 1 pc. Attenuator 1 pc. RF-cable BNC (m) - N (m) 1 pc. Adapter BNC (f) - N (m)

DAM 100W	Attenuator 6dB, 100W consisting of: 1 pc. Attenuator 1 pc. RF-cable BNC (m) - N (m) 1 pc. Adapter BNC(f) - N (m)
Additional Attenuator Models on Request	
CDN'S ACC. TO IEC/EN 61000-4-6	
AF3	Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines. Frequency range: 150kHz to 230MHz, Number of lines: 3 Connector: terminal block Maximum current: 0,5A Maximum Voltage: AC 100V, DC 150V
AF3-MC	Coupling unit acc. to IEC 61000-4-6, for unscreened, non-balanced lines. Frequency range: 150kHz to 230MHz, Number of lines: 3 Connector: 4mm safety banana jack Maximum current: 0,5A Maximum Voltage: AC 100V, DC 150V
AF3-N	Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines, Frequency range: 10kHz to 80MHz, Number of lines: 3 Connector: terminal block Maximum current: 0,5A Maximum Voltage: AC 100V, DC 150V
AF4	Coupling unit acc. to IEC 61000-4-6, for unscreened, non-balanced lines, Frequency range: 150kHz to 230MHz, (Emission 300MHz), Number of lines: 4 Connector: terminal block Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V
AF4-MC	Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines, Frequency range: 150kHz to 230MHz, Number of lines: 4 Connector: 4mm safety banana jack Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V
AF5	Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines. Frequency range: 150kHz to 230MHz, (Emission 300MHz) Number of lines: 5 Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V
AF5-MC	Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines. Frequency range: 150kHz to 230MHz, Number of lines: 5 Connector: 4mm safety banana jack Maximum current: 1A Maximum Voltage: 100VAC
AF6	Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines. Frequency range: 150kHz to 230MHz, (Emission 300MHz) Number of lines: 6 Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V

AF8	Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines. Frequency range: 150kHz to 230MHz, (Emission 300MHz) Number of lines: 8 Connector: terminal block Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V
AF8-MC	Coupling unit acc. to IEC 61000-4-6 for unscreened, non-balanced lines. Frequency range: 150kHz to 80MHz, Number of lines: 8 Connector: safety banana jack Maximum current: 16A Maximum Voltage: 250 VAC
CAN-4	Coupling unit acc. to IEC 61000-4-6 for CAN-Bus (4 lines) Frequency range: 150kHz to 230MHz, Number of lines: 4
CAN-5	Coupling unit acc. to IEC 61000-4-6 for CAN-Bus (5 lines) Frequency range: 150kHz to 230MHz, Number of lines: 5 Maximum Voltage: 50V AC, 50V DC
DVI	Coupling unit acc. to IEC 61000-4-6 for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: DVI 24+5pin EUT/ AE: DVI-f
FIREWIRE	Coupling unit for IEEE 1394 devices (fire wire) Frequency range: 150kHz to 230MHz Number of lines: 6 + shielding
HDMI	Coupling unit acc. to IEC 61000-4-6 for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: HDMI Maximum current: 0,5A Maximum Voltage: AC 150V, DC 200V EUT/ AE: 19-pin HDMI 1.3A
ISN S8	ISN for screened RJ45 or RJ11 connections. 1, 4 or 8 wire, acc. D.11 CISPR 22 Ed.5.2
ISN T8	ISN T8 CAT5 (LCL=65dB) acc. CISPR 22 ed.5.2 figure D.3 for up to 4 pairs UTP
KAL	Universal Calibration Set for CDN's, including 150/50 Ohm converter, standard version useable for CDN's type M1, M2, M3
KAL-AD	Connector adapter in addition to Universal Calibration Set, for CDN Type xx.
KAL-	Connector adapter in addition to universal calibration set, for CDN type AF8-MC
KAL-AE	Universal Calibration Set includes 50Ohm termination for CDN's, including 150/50 Ohm converter, standard version useable for CDN's type M1, M2, M3
KAL-ANG	Metal Angle. Additional metal angle for calibration set KAL includes 150/50 Ohm converter for calibration set KAL
KAL-HC	Calibration adapter for CDN's with high current. 63A/100A including 150/50 Ohm converter
KAL-RES	150/50 Ohm Converter. Additional 150/50 Ohm converter for calibration set KAL
L1	Coupling- Decoupling Unit for unscreened power supply lines, acc. to IEC 61000-4-6 Frequency range: 150kHz to 230MHz, Number of lines: 1 Maximum current: 16 A Maximum voltage: AC 250V, DC 400V Connector: 4mm safety banana jack

L1/32	Coupling- Decoupling Unit for ground lines or supply lines. Frequency range: 150kHz to 230MHz, Number of lines: 1 Maximum current: 32 A Maximum voltage: AC 250V, DC 400V
L2+N/32	Coupling unit acc. to IEC 61000-4-6, for power supply lines. L1 + L2 + N Frequency range: 150kHz to 230MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: AC 250V, DC 400V
L3/32	Coupling unit acc. to IEC 61000-4-6, for power supply lines. L1 + L2 + L3 Frequency range: 150kHz to 230MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: AC 250V, DC 400V
M1	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines. Frequency range: 150kHz to 230MHz, Number of lines: 1 Connector: 4mm safety banana jack Maximum current: 0,5 A Maximum Voltage: AC 250V, DC 400V
M2/100-HV	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Frequency range: 150kHz to 80MHz, Number of lines: 2 Maximum current: 100A Maximum Voltage: 600VAC Connector: 6mm safety banana jack
M2/32	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Frequency range: 150kHz to 230MHz, Number of lines: 2 Maximum current: 32A Maximum Voltage: AC 250V, DC 400V
M2/32-HV	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 2 Maximum current: 32A Maximum Voltage: 600VAC Connector: 4mm safety banana jack
M2/63-HV	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 2 Maximum current: 63A Maximum Voltage: 600VAC Connector: 6mm safety banana jack
M2+M3/32	Coupling unit acc. to IEC 61000-4-6, for power supply lines. Frequency range: 150kHz to 230MHz, Number of lines: 2/3 (switch able) Maximum current: 32A Maximum Voltage: AC 250V, DC 400V
M3/100-HV	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 3 Maximum current: 100A Maximum Voltage: 600VAC Connector: 6mm safety banana jack

M3/32	Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 150kHz to 230MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: AC 250V, DC 400V
M3/32-HV	Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: 600VAC Connector: 4mm safety banana jack
M3/32-L	Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines, L1/L2/L3. Frequency range: 150kHz to 230MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: AC 250V Connector: 4mm safety banana jack
M3/32-LN	Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines, L1/L2/N Frequency range: 150kHz to 230MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: AC 250V Connector: 4mm safety banana jack
M3/32-VHV	Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: 1000VAC Connector: 4mm safety banana jack
M3/63-HV	Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 3 Maximum current: 63A Maximum Voltage: 600VAC Connector: 6mm safety banana jack
M3/32	Coupling unit acc. to IEC 61000-4-6 for power supply lines. Frequency range: 150kHz to 230MHz, Number of lines: 3 Maximum current: 32A Maximum Voltage: AC 250V, DC 400V
M3-L	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, L1/L2/L3 Frequency range: 150kHz to 230MHz Number of lines: 3 Maximum current: 16A Maximum Voltage: AC 250V Connector: 4mm safety banana jack
M4	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Frequency range: 150kHz to 230MHz, Number of lines: 4 Maximum current: 16A Maximum Voltage: AC 250V Connector: 4mm safety banana jack
M4/100-HV	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 100A Connector: 6mm safety banana jack

M4/100-LN-HV	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, L1-L2-L3-N Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 100A Connector: 6mm safety banana jack
M4/32	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 32A Connector: 4mm safety banana jack
M4/32-HV	Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 32A Maximum Voltage: 1000VAC Connector: 4mm safety banana jack
M4/32-LN	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, L1-L2-L3-N Frequency range: 150kHz to 230MHz, Number of lines:4 Maximum current: 32A Maximum Voltage: AC 250V Connector: 4mm safety banana jack
M4/32-VHV	Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 32A Maximum Voltage: 1000VAC Connector: 4mm safety banana jack
M4/63-HV	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 63A Connector: 6mm safety banana jack
M4/63-LN-HV	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, L1-L2-L3-N Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 4 Maximum current: 63A Connector: 6mm safety banana jack
M4-LN	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, L1-L2-L3-N Frequency range: 150kHz to 230MHz, Number of lines: 4 Maximum current: 16A Maximum Voltage: AC 250V Connector: 4mm safety banana jack
M5	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Frequency range: 150kHz to 230MHz, Number of lines: 5 Maximum current: 16A Connector: 4mm safety banana jack

M5/100-HV	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 5 Maximum current: 100A Connector: 6mm safety banana jack
M5/32	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Frequency range: 150kHz to 230MHz, Number of lines: 5 Maximum current: 32A Connector: 4mm safety banana jack
M5/32-HV	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage: 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 5 Maximum current: 32A Connector: 4mm safety banana jack
M5/32-VHV	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage: 1000VAC Frequency range: 150kHz to 80MHz, Number of lines: 5 Maximum current: 32A Connector: 4mm safety banana jack
M5/63-HV	Coupling unit acc. to IEC 61000-4-6, for unscreened power supply lines, Maximum voltage 600VAC Frequency range: 150kHz to 80MHz, Number of lines: 5 Maximum current: 63A Connector: 6mm safety banana jack
RJ11	Coupling unit acc. to IEC 61000-4-6, with connector RJ11 for unscreened, symmetrical lines; Frequency range: 150kHz to 230MHz, Number of lines: 6 Maximum current: 0.25 A Maximum Voltage: AC 100V eff, DC 150V
RJ45	Coupling unit acc. to IEC 61000-4-6, with connector RJ45 for unscreened, symmetrical used lines; Frequency range: 150kHz to 230MHz; Number of lines: 8; Maximum current: 0.25 A; Maximum Voltage: AC 100V eff, DC 150V
RJ45-S	Coupling unit acc. to IEC 61000-4-6, with connector RJ45 (8 lines + screen) for screened lines; Frequency range: 150kHz to 230MHz, Maximum current: 0.25 A Maximum Voltage: AC 100V eff, DC 150V
S1	Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 1 Maximum current: 0,25A Maximum Voltage: AC 100V, DC 150V
S1/75	Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 1 Maximum current: 0,25A Maximum Voltage: AC 100V, DC 150V Impedance: 75 Ohm Connector: BNC

S15	Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 15 Maximum current: 0,5A Maximum Voltage: AC 250V, DC 400V Connector: 15-pol Sub D
S2	Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 2 Maximum current: 0,5A Maximum Voltage: AC 150V, DC 200V Connector: XLR
S25	Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 25 Maximum current: 0,5A Maximum Voltage: AC 250V, DC 400V Connector: 25 pin Sub-D
S4	Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 4 Maximum current: 0,5A Maximum Voltage: AC 250V Con.: 5 pin XLR
S8	Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 8 Maximum current: 0,5A Maximum Voltage: AC 250V, DC 400V
S9	Coupling unit acc. to IEC 61000-4-6, for screened cables. Frequency range: 150kHz to 230MHz, Number of lines: 9 Maximum current: 0,5A Maximum voltage: AC 150V, DC 200V Connector: 9 pin Sub-D
S-DIR	Direct coupling on screened cables. Frequency range: 150kHz to 230MHz, Connectors: BNC/ crocodile clamp
T2	Coupling unit acc. to IEC 61000-4-6, for unscreened, balanced lines, Frequency range: 150kHz to 230MHz Number of lines: 2 Maximum current: 0.5A Maximum Voltage: AC 150V, DC 200V Connector: terminal block
T4	Coupling unit acc. to IEC 61000-4-6, for unscreened, balanced lines, Frequency range: 150kHz to 230MHz, Number of lines: 4 Maximum current: 0.5A Maximum Voltage: AC 150V, DC 200V Connector: terminal block
T6	Coupling unit acc. to IEC 61000-4-6, for unscreened, balanced lines. Frequency range: 150kHz to 230MHz, Number of lines: 6 Max. current: 0.5A Max. Voltage: AC 150V, DC 200V Connector: RJ45

T8	Coupling unit acc. to IEC 61000-4-6, for unscreened, balanced lines, Frequency range: 150kHz to 230MHz, Number of lines: 8 Maximum current: 0.5A Maximum Voltage: AC 150V, DC 200V Connector: terminal block
USB-3.0	Coupling unit acc. to IEC 61000-4-6, for test of devices with USB (Compatible to all USB standards up to 3.0) Frequency range: 150kHz to 230MHz Maximum Current: 0.9A Maximum Voltage: AC 100V ; DC 150V Connectors: EUT: USB-socket Type A AE: USB-socket Type A
USB-C	Coupling unit acc. to IEC 61000-4-6, for test of central devices with USB Frequency range: 150kHz to 230MHz Maximum Current: 0.5A Maximum Voltage: AC 250V ; DC 400V Connectors: EUT: USB-socket Type B AE: USB-socket Type A
USB-P	Coupling unit acc. to IEC 61000-4-6, for test of peripheral devices with USB Frequency range: 150kHz to 230MHz Maximum Current: 0.5A Maximum Voltage: AC 250V ; DC 400V Connectors: EUT: USB-socket Type A AE: USB-socket Type B
CDN'S ACC. TO IEC/EN 61000-4-6 - NAMUR	
AF2-N	Coupling network acc. to IEC 61000-4-6 Namur for unscreened, non-balanced lines, Frequency range (Coupling): 10kHz - 230MHz, Number of lines: 2, Maximum Current: 0,5 A, Maximum Voltage: AC 40V, DC 50V Connector: Safety banana jack
AF4-N	Coupling network acc. to IEC 6100-4-6 Namur for unscreened, non-balanced lines, Frequency range (Coupling): 10kHz - 80MHz, Number of lines: 4, Maximum Current: 0.5 A, Maximum Voltage: AC 40V, DC 50V Connector: 4mm safety banana jack
AF8-N	Coupling network acc. to IEC 6100-4-6 Namur for unscreened, non-balanced lines, Frequency range (Coupling): 10kHz - 230MHz, Number of lines: 8, Connector: 9-pol Sub-D
M1-N	Coupling network acc. to IEC 61000-4-6 Namur for unscreened power supply lines, Frequency range (Coupling): 10kHz - 230MHz, Number of lines: 1, Maximum Current: 0.5A, Maximum Voltage: AC 250V, DC 400V Connector: 4mm safety banana jack
M2+M3-N	Coupling network acc. to IEC 6100-4-6 Namur for unscreened power supply lines, Frequency range (Coupling): 10kHz - 230MHz, Number of lines: 2/ 3, switch able Maximum Current: 16A, Maximum Voltage: AC 250V, DC 400V Connector: 4mm safety banana jack

M2-N	Coupling network acc. to IEC 61000-4-6 Namur for unscreened power supply lines, Frequency range (Coupling): 10kHz - 230MHz, Number of lines: 2, Maximum Current: 16A, Maximum Voltage: AC 250V, DC 400V Connector: 4mm safety banana jack
M3-N	Coupling network acc. to IEC 6100-4-6 Namur for power supply lines, Frequency range (Coupling): 10kHz - 80MHz, Number of lines: 3, Maximum Current: 16A, Maximum Voltage: AC 250V, DC 400V
M4/32-N	Coupling network acc. to IEC 61000-4-6 Namur for unscreened power supply lines, Frequency range (Coupling): 10kHz - 230MHz, Number of lines: 4, Maximum Current: 32A, Maximum Voltage: AC 250V Connector: 4mm safety banana jack
M5-N	Coupling network acc. to IEC 61000-4-6 Namur for power supply lines, Frequency range: 10kHz to 80MHz, Number of lines: 5 Maximum current: 16A
RJ45-S-N	Coupling unit acc. to IEC 61000-4-6, acc. Namur for screened cables. Frequency range: 10kHz to 230MHz, Number of lines: 8 + screen Maximum current: 0,5A Maximum Voltage: AC 150V, DC 200V
S2-N	Coupling unit acc. to IEC 61000-4-6 acc. Namur for screened cables. Frequency range: 10kHz to 230MHz, Number of lines: 8 + screen Maximum current: 0,5A Maximum Voltage: AC 150V, DC 200V
S9-N	Coupling unit acc. to IEC 61000-4-6, Namur for screened cables. Frequency range: 10kHz to 230MHz, Number of lines: 9 Maximum current: 0.5A Maximum Voltage: AC 150V, DC 200V Connector: 9 pin Sub-D
T2-N	Coupling network acc. to IEC 61000-4-6 for unscreened, balanced lines. Frequency range: 10kHz - 80MHz, Number of lines: 2, Maximum Current: 0.5 A, Maximum Voltage: AC 150V, DC 200V Connector: terminal block
T4-N	Coupling network acc. to IEC 61000-4-6 Namur for unscreened, balanced lines, Frequency range (Coupling): 10kHz - 80MHz, Number of lines: 4, Maximum Current: 0.5 A, Connector: terminal block
USB-C-N	Coupling unit acc. to IEC 61000-4-6, acc. to Namur for test of central devices with USB Frequency range: 10kHz - 230MHz Maximum Current: 0.5A Maximum Voltage: AC 150V ; DC 200V Connector: EUT: USB-socket Type B AE: USB-socket Type A

USB-P-N	Coupling unit acc. to IEC 61000-4-6, acc. to Namur for test of peripheral devices with USB Frequency range: 10kHz - 230MHz Maximum Current: 0,5A Maximum Voltage: AC 150V ; DC 200V Connectors: EUT: USB-socket Type A AE: USB-socket Type B
CDN'S ACC. TO IEC/EN 61000-4-6 + EN 55015 / EN 55022	
AF2	Coupling unit acc. to IEC 61000-4-6, EN 55015 and EN 55022 for unscreened, non-balanced lines. Frequency range: 150kHz to 300MHz Number of lines: 2 Connector: terminal block Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V
AF2-MC	Coupling unit acc. to IEC 61000-4-6, EN 55015 and EN 55025 for unscreened, non-balanced lines. Frequency range: 150kHz to 300MHz, Number of lines: 2 Connectors: 4mm safety banana jack Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V
M2	Coupling unit acc. to IEC 61000-4-6, EN 55015 and EN 55022 for unscreened power supply lines. Frequency range: 150kHz to 230MHz (Emission up to 300MHz), Number of lines: 2 Maximum current: 16A Maximum Voltage: AC 250V, DC 400V Connector: 4mm safety banana jack
M2+M3	Coupling unit acc. to IEC 61000-4-6, EN55022 and EN55015 for unscreened power supply lines. Frequency range: 150kHz to 230MHz (Emission up to 300MHz), Number of lines: 2/3 (switch able) Maximum current: 16A Maximum Voltage: AC 250V, DC 400V Connector: 4mm safety banana jack
M3	Coupling unit acc. to IEC 61000-4-6, EN 55015 and EN 55022 for unscreened power supply lines. Frequency range: 150kHz to 230MHz (Emission up to 300MHz), Number of lines: 3 Maximum current: 16A Maximum Voltage: AC 250V, DC 400V Connector: 4mm safety banana jack
EM COUPLING CLAMP / DECOUPLING CLAMP - BCI CLAMP	
EMCL	Coupling clamp acc. to IEC 61000-4-6 Frequency range: 100kHz to 1000MHz, Maximum diameter: 20mm Connector: N-female Maximum RF input power: 150KHz to 100MHz: 100W Maximum 15 min. 100MHz to 230MHz: 100W Maximum 5 min. 230MHz to 1000MHz: 50W Maximum 3 min. includes calibration kit type KAL-EMCL 2 pc. (150/50 Ohm adapter) 1 pc. calibration cable 1 pc. 50 ohms- termination (N) 1 pc. adapter BNC (f)-N(m)

EMCL-35	<p>Coupling clamp acc. to IEC 61000-4-6 Frequency range: 100kHz to 1000MHz (10kHz as an option) Maximum diameter: 37mm Connector: N-female Maximum RF input power: 150KHz to 100MHz: 100W Maximum 15 min. 100MHz to 230MHz: 100W Maximum 5 min. 230MHz to 1000MHz: 50W Maximum 3 min. includes calibration kit type KAL-EMCL 2 pc. (150/50 Ohm adapter) 1 pc. calibration cable 1 pc. 50 ohms- termination (N) 1 pc. adapter BNC (f)-N(m)</p>
EMCL-MN10K	<p>Matching network for EM coupling clamp type EMCL. Frequency range: 10kHz - 150kHz</p>
KAL-EMCL	<p>Calibration unit for coupling clamp, acc. to IEC 61000-4-6 Frequency range: 150kHz to 1000MHz, Maximum diameter: 20mm Maximum RF input power: 150KHz to 1000MHz: 100W Maximum 15 min. 100MHz to 230MHz: 100W Maximum 3 min. 230MHz to 1000MHz: 50W Maximum 3 min. includes calibration kit type KAL-EMCL 2 pc. (150/50 Ohm adapter) 1 pc. calibration cable 1 pc. 50 ohms- termination (N) 1 pc. adapter BNC (f)-N(m)</p>
BCI-CLAMP-2	<p>Current Injection Clamp 10kHz-400MHz for BCI-tests acc. to ISO 11452-4, MIL-STD-461, ... Frequency range: 10kHz - 400MHz Frequency/ Insertion loss 10kHz/ 45dB, 100kHz/ 25dB, 800kHz/ 9dB, 1MHz/ 7,5dB, 10MHz/ 6dB, 100MHz/6dB, 200MHz/ 7dB, 300MHz/ 9dB, 400MHz/ 11dB Maximum input power: 45 min @ 100W 90 min @ 70W Diameter (outer): 120mm Diameter (inner): 40mm Width: 40mm Clamp can be opened/ closed includes calibration jig</p>
BCI-ACC	<p>BCI-Accessories 1pc TER 50: Termination 50 ohms 1 pc ATT30: Attenuator 30dB, 50ohms</p>
MP-50	<p>Current monitoring probe MP-50 for conducted immunity measurements acc. to IEC/EN 61000-4-6, BCI-tests acc. to ISO 11452-4, RTCA/DO-160 section 20, MIL-STD-461 and various automotive standards Frequency range: 10 kHz - 400Mhz Insertion impedance: < 2.5 Ohm Maximum signal current (10 kHz - 400Mhz): 1 A Inner cable diameter: 46 mm Outer diameter of the probe: 115 mm Thickness of the probe: 30 mm Overall length of the probe: 136 mm Weight: 0.55 kg</p> <p>Individual calibration data are delivered with each probe.</p>

TEST-SYSTEM ACC. TO IEC/EN 61000-4-16 / PSG-300	
PSG-300	Power Signal Generator Type PSG-300/ 260W DC, 0.05Hz - 300kHz, sine, rectangle, ramp. 100V/us; +-50V; +-5A; k<0.1%; for continuous and short disturbing voltages up to 50V acc. to EN/ IEC 61000-4-16. External Generator input for optional connection of external voltage sources for generation of higher test voltage levels. USB; System software: WIN NT/2000/XP.
PSG-300A	Power Signal Generator Type: PSG-300/ 600W DC, 0.05Hz - 300kHz, sine, rectangle, ramp. 100V/us; +-50V; +-12A (typ. 15A); k<0.1%; Maximum output power: 600W typ. 800W for continuous and short disturbing voltages up to 50V acc. to EN/ IEC 61000-4-16. External Generator input for optional connection of external voltage sources for generation of higher test voltage levels. USB; System software: WIN NT/2000/XP.
PSG-E300	Option: Extension to 300V of PSG-300 DC (0Hz), 16 2/3Hz, 50Hz, 60Hz External voltage source for generation of short term levels of IEC/ EN 61000-4-16 in connection with instruments of series PSG/ MTS at technical frequencies DC (0Hz), 16 2/3Hz, 50Hz, 60Hz up to 300V. Maximum time 10s. USB includes system software
PSG-EXT	Input connector for phase controlled switching of external power source (any brand)
ITU-16	Coupling network acc. to ITU_T K54/fig.1 Fused at power frequencies 16 2/3Hz, 50Hz, 60Hz Connector: terminal block
PSG-SHUNT	Current shunt acc. to IEC/EN 61543
PSG-U/I	Option: Voltage/ Current Measurement for Magnetic Field Tests acc. to MIL-STD-461 CS101 and EN55103-2 includes application software
PSG-ZDDIFF	Current shunt acc. to EN 61000-4-19 (Draft) Annex C; Figure C3
CDN'S ACC. TO IEC/EN 61000-4-16	
AF2-16	Coupling unit acc. to IEC 61000-4-16, for unscreened, non-balanced lines. Frequency range: DC/15Hz to 150kHz, Number of lines: 2 Maximum current: 0.5A Maximum Voltage: AC 40V, DC 50V Connector: terminal block
AF4-16	Coupling unit acc. to IEC 61000-4-16, for unscreened, non-balanced lines. Frequency range: DC/15Hz to 150kHz, Number of lines: 4 Maximum current: 0.5A Maximum Voltage: AC 40V, DC 50V Connector: terminal block
AF8-16	Coupling unit acc. to IEC 61000-4-16, for unscreened, non-balanced lines. Frequency range: DC/15Hz to 150kHz, Number of lines: 8 Maximum current: 0,5A Maximum Voltage: AC 40V, DC 50V Connector: terminal block

CN-50065-2-1	<p>Coupling unit acc. to EN 50065-2-1, 7.2.2 Frequency range: 3kHz bis 30MHz Test level: 134dBμV (5V) cont. Number of lines: 2 (N+L) Maximum voltage: AC 250V Connection ports: Input: BNC Output: 4mm MC</p>
M2/DC-16	<p>Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: DC Test level: 50V cont. Number of lines: 2 Voltage/Current: 50V/32A Connector: 4mm banana safety jack</p>
M2+M3-16	<p>Coupling unit acc. to IEC 61000-4-16, for unscreened power supply lines. Frequency range: DC/ 15Hz to 150kHz Number of lines: 2/3 switch able Maximum current: 32A Maximum Voltage: 520VAC / 620 VDC Connector: 4mm safety banana jack</p>
M2-16	<p>Coupling unit acc. to IEC 61000-4-16, for unscreened power supply lines. Frequency range: 15Hz to 150kHz Test level: 50V cont. 300V (1s) at energetically used frequencies Number of lines: 2 Maximum current: 32A Maximum Voltage: AC 250V (50VDC, 32A) Connector: 4mm safety banana jack</p>
M2345/125-16	<p>Coupling unit acc. to IEC/ EN 61000-4-16 Switch able between modes M2/ M3/ M4/ M5 for power supply lines. Frequency range: DC, 15Hz to 150kHz Maximum test level: 300V cont. Number of lines: 2, 3, 4, 5 switch able Maximum current: 125A Connection: 6mm MC socket Stand-alone and remote controllable</p>
M2345/32-16	<p>Coupling unit acc. to IEC/ EN 61000-4-16 Switch able between modes M2/ M3/ M4/ M5 for power supply lines. Frequency range: DC, 15Hz to 150kHz Maximum test level: 300V cont. Number of lines: 2, 3, 4, 5 switch able Maximum current: 32A Stand-alone and remote controllable</p>
M3/DC-16	<p>Coupling unit acc. to IEC 61000-4-16, for unscreened power supply lines. Frequency range: DC Test level: 50V cont. Number of lines: 3 Voltage/Current: 50V/32A Connector: 4mm safety banana jack</p>
M3-16	<p>Coupling unit acc. to IEC 61000-4-16, for unscreened power supply lines. Frequency range: 15Hz to 150kHz, Number of lines: 3 Maximum current: 32A Connector: 4mm safety banana jack</p>

M4-16	<p>Coupling unit acc. to IEC 61000-4-6 for unscreened power supply lines. Frequency range: 15Hz to 150kHz Test level: 50V cont. 300V (1s) at energetically used frequencies Number of lines: 4 Maximum current: 32A Connector: 4mm terminal block</p>
M5-16	<p>Coupling unit acc. to IEC 61000-4-16, for power supply lines. Frequency range: 15Hz to 150kHz Test level: 50V cont. 300V (1s) at energetically used frequencies Number of lines: 5 Maximum current: 32A Connector: 4mm terminal block</p>
RJ45-16	<p>Coupling unit acc. to IEC 61000-4-16, with connector RJ45; for unscreened, non-balanced lines Frequency range: DC/15Hz to 150kHz Number of lines: 8; Maximum current: 0.5 A; Maximum voltage: AC 40V, DC 50V</p>
T2-16	<p>Coupling unit acc. to IEC 61000-4-16, for unscreened, balanced lines. Frequency range: DC/15Hz to 150kHz, Number of lines: 2 Maximum current: 0,5A Maximum Voltage: AC 150V, DC 200V Connector: terminal block</p>
T4-16	<p>Coupling unit acc. to IEC 61000-4-16, for unscreened, balanced lines. Frequency range: DC/15Hz to 150kHz, Number of lines: 4 EUT / AE-port: Maximum current 0.5A Maximum voltage: 50V Connector: terminal block</p>
T8-16	<p>Coupling unit acc. to IEC 61000-4-16, for unscreened, balanced lines. Frequency range: DC/15Hz to 150kHz, Number of lines: 8 EUT / AE-port: Maximum current 0.5A Maximum voltage: 50V Connector: terminal block</p>

MAGNETIC FIELD TEST SYSTEM - MTS-800 & ACCESSORIES	
MTS-800	<p>Generator/ Analyzer for Testing and Measuring Magnetic Fields acc. standards: EN61000-4-16 EN61000-4-8 EN 55103-1/ 2 MIL-STD-461 (CE101, RE101, CS101, CS109, RS101) SAE J1113-22 and similar standards Compact test system consisting of: - Signal generator: Frequency range: DC/ 10Hz - 250kHz -Precision-Power amplifier Frequency range: DC-1MHz Output voltage: 50V eff, output current: 16A Max. output power: 800 W The max. achievable magnetic field strength depends on the size of EUT and of necessary coil size -Spectrum analyzer: Frequency range: 10Hz-250kHz The package includes: -Compact system MTS-800 -Power cord -PC-interface cable (RJ-45) -System software WIN 7 / 8.1</p>
MTS-800/W	<p>Generator/ Analyzer for Testing/ Measuring Magnetic Fields (without power amplifier) acc. standards: EN61000-4-16, EN61000-4-8, EN 55103-1/ 2, MIL-STD-461E (CE101, RE101, CS101, CS109, RS101), SAE J1113-22 and similar standards Compact test system consisting of: - Signal generator Frequency range: DC/ 10Hz - 250kHz -external Precision-Power amplifier required -Spectrum analyzer Frequency range: 10Hz-250kHz The package includes: -Compact system MTS-800 -Power cord -PC-interface cable (RJ-45) -System software WIN 2000/ XP</p>

MTS-800K	<p>Generator/ Analyzer for Testing/Measuring Magnetic Fields. Complete System acc. standards: EN61000-4-8, EN 55103-1/ 2 , MIL-STD-461E (CE101, RE101, CS101, CS109, RS101) , SAE J1113-22 and similar standards Compact test system consisting of:</p> <ul style="list-style-type: none"> - Signal generator: Frequency range: DC/ 10Hz - 250kHz -Precision-Power amplifier: Frequency range: DC-1MHz Output voltage: 50V eff, output current: 16A Max. output power: 800 W <p>The max. achievable magnetic field strength depends on the size of EUT and of necessary coil size</p> <ul style="list-style-type: none"> -Spectrum analyzer Frequency range: 10Hz-250kHz <p>The complete system includes</p> <ul style="list-style-type: none"> -Compact system MTS-800 -Power cord -PC-interface cable (RJ-45) -System software WIN 2000/ XP -Compensation board & Triax-coil HCST_50/28 for generation of field strength of 1000A/m acc. to ISO11452-8
HCS-125/75	<p>Helmholtz Coil for tests acc. to following standards: MIL-STD-461E, EN 55103-2, SAE J1113-22 and similar standards. frame length: 1,250mm x 1,250mm Distance: 750mm incl. cable set, 3m</p>
HCS-50/28	<p>Helmholtz Coil for tests according to following standards: MIL-STD-461E, ISO 11452-8, SAE J1113-22 and similar standards. frame length:500mm x 500mm Distance: 280mm incl. cable set, 3m</p>
HCS-100/60	<p>Helmholtz Coil for tests acc. to following standards: MIL-STD-461E, ISO 11452-8, SAE J1113-22 and similar standards frame length: 1,000mm x 1,000mm Distance: 600mm incl. cable set, 3m</p>
HCST-50/28	<p>Helmholtz Coil for tests acc. to following standards: MIL-STD 461, ISO 11452-8, SAE J1113-22, and similar standards Coil 1 frame length: 500mm x 500mm Distance: 280mm Coil 2 frame length: 460mm x 460mm Distance: 280mm Coil 3 frame length: 420mm x 420mm Distance: 280mm</p>
HCR-500/200	<p>Helmholtz Coil for DC Application for tests acc. to standard: ISO 11452-8 and similar standards Coil diameter 500mm Distance 250mm Max. input current 32A coil factor 150 1/m 4x14 windings includes Silicon high current cable 10qmm Connection socket ID/S6AR-N-S 3000A/m DC require a CD-current supply of 20A DC</p>
HC-VER	Transport box for Helmholtz coil

IT-16	Isolation Transformer Power: 3680VA Primary voltage: 230V Secondary voltage: 230V Secondary current: 16A Differential/ Common-Mode attenuation (15Hz ..150kHz): 60dB Isolation: -1kV (50Hz/ 60Hz) acc. to IEC/ EN 61000-4-16
IT-20	Isolation Transformer Power: 4600VA Primary voltage: 230V Secondary voltage: 230V Secondary current: 20A Differential/ Common-Mode attenuation (15Hz ..150kHz): 60dB Isolation: -1kV (50Hz/ 60Hz) acc. to IEC/ EN 61000-4-16 Weight: 50kg
IT-6	Isolation Transformer Power: 1380VA Primary voltage: 230V Secondary voltage: 230V Secondary current: 6A Differential/ Common-Mode attenuation (15Hz ..150kHz): 60dB Isolation: -1kV (50Hz/ 60Hz) acc. to IEC/ EN 61000-4-16
LS-040	40mm Coil acc. to MIL-STD-461E (RE101) includes cable, 3m
LS-133	133mm Coil acc. to MIL-STD-461E (RE101) includes cable 3m
BC-500	Large field coil for immunity tests acc. to EN 55103 Diameter: 500mm includes cable 3m
MTS-KN	Calibration network acc. to EN55103-2, picture B2
MTS-KOM	Compensation board for MTS-800 (add-on kit) for compensation of the coil inductivity of optional available Helmholtz-coils HCS-50/28 and HCST-50/28 to meet 1000A/m at 1kHz.
MTS-KUR	Option: Short time field Maximum input 25A
MTS-PA	Common mode test adapter acc. to EN55103-2, picture B1
MTS-ST	Current transducer includes correction network acc. to EN55103-2, picture B4
MTS-STE	External Transformer for the generation of short term fields according to IEC/EN 61000-4-8 Primary: 230V Secondary: 0-260V Maximum Current: 20A
RL-120	120mm Coil acc. to MIL-STD-461E (RS101) includes Cable, 3m

RLS-133	133mm Coil acc. to EN 55103 includes Cable, 3m
Software	
SW-4/16	Software module, EN 61000-4-16 Windows-Software for measurements according to EN 61000-4-16. Plug-in for MTS-800 system software.
SW-CE101	Software module, MIL-STD-461E (CE101) Windows-Software for measurements according to MIL-STD-461E / CE101. Plug-in for MTS-800 system software.
SW-CS101	Software module, MIL-STD-461E (CS101) Windows-software for measurements according to MIL-STD-461E / CS101. Plug in for MTS-800 system software. Only usable with coupling transformer CT-50A/C
SW-CS109	Software module, MIL-STD-461E (CS109) Windows-Software for measurements according to MIL-STD-461E / CS109. Plug-in for MTS-800 system software.
Coupling Network	
CT-2.5/50A/C	Coupling network for tests acc to DO-160 Section 18 For these test MTS-800 (optional) is requested. includes resistor (active cooled) difference amplifier connector power supply, cables, and software modification in software of MTS-800
CT-50A/C	Coupling Transformer Coupling Transformer, type CT2,5/50A according to MIL-STD-461E (CS101) for measurements with magnetic field test system MTS-800. Maximum current: 15A (primary), 50A (secondary). Frequency range: 15Hz to 250kHz. Inclusive Resistor 0,5 Ohm, 100W (active cooling) and amplifier, with power adapter and cabling. DO160 chapter 18, boxed , 4mm MC-sockets
CT-ISS-19	Coupling network for tests acc to DO-160 Section 19 (19.3.1, 19.3.2, 19.3.3) For these test MTS-800 (optional) is requested. includes connector power supply, cables and software

EMC CONTROL UNIT - ECU	
ECU-3	<p>Compact EMC Control Unit - Basic Instrument</p> <p>Frequency range: 9kHz - 3GHz for radiated and conducted immunity tests and emission measurements</p> <p>Supports test according following standards:IEC/ EN 61000-4-3, -6, ISO 11452-2, -3, -4, -5,MIL-STD 461, RS103, RE102 and emission standards</p> <p>Includes following instruments/ functions:</p> <ul style="list-style-type: none"> -Signal generator: 9kHz - 3GHz, - Frequency resolution: 0,1Hz - Signals output (modulation): CW, AM, PM - Output level:-65dBm to +10dBm - Resolution of output level: 0,1dB <p>-2 internal RF-switching relay (type: 1 I/O to 3 O/I) for switching signal generator output to inputs of 3 amplifiers and outputs of 3 amplifiers to antenna load 1</p> <p>-2 Monitoring inputs, type EUT-Fail, TTL/CMOS compatible</p> <p>-2 Monitoring inputs, type analogue measuring input, 0-10V</p> <p>-Interlock input connectable to an external switching relay, with LED (Reset with or without manual confirmation at Reset button)</p> <p>-switching to emission path and connection of 1 measuring receiver/ spectrum analyzer</p> <p>-Display of set paths at front panel</p> <p>-Display of frequency, generator level, modulation,</p>
ECU-6	<p>Compact EMC Control Unit - Basic Instrument</p> <p>Frequency range: 9kHz - 6GHz</p> <p>for radiated and conducted immunity tests and emission measurements</p> <p>Supports test according following standards: IEC/ EN 61000-4-3, -6, ISO 11452-2, -3, -4, -5, MIL-STD 461, RS103, RE102 and emission standards</p> <p>Includes following instruments/ functions:</p> <ul style="list-style-type: none"> -Signal generator: 9kHz - 6GHz, - Frequency resolution: 0,001Hz - Signals output (modulation): CW, AM, PM, FM - Output level:-65dBm to +13dBm - Resolution of output level: 0,1dB <p>-2 internal RF-switching relay (type: 1 I/O to 4 O/I) for switching signal generator output to inputs of 4 amplifiers and outputs of 4 amplifiers to antenna load 1</p> <p>-2 Monitoring inputs, type EUT-Fail, TTL/CMOS compatible</p> <p>-2 Monitoring inputs, type analogue measuring input, 0-10V</p> <p>-Interlock input connectable to an external switching relay, with LED (Reset with or without manual confirmation at reset button)</p> <p>-switching to emission path and connection of 1 measuring receiver/ spectrum analyzer</p>
ECU-120DBM	<p>Option for ECU-3/6</p> <p>Output level from -120dBm</p>
ECU-DC1A	<p>Option for ECU-3/6</p> <p>ECU-DC1A: Directional coupler,10kHz -250MHz, 30dB, 100W</p>
ECU-DC1B	<p>Option for ECU-3/6</p> <p>ECU-DC1B: Directional coupler, 10kHz-400MHz, 30dB, 100W</p>
ECU-DC1C	<p>Option for ECU-3/6</p> <p>ECU-DC1C: Directional coupler,10kHz-400MHz, 40dB, 500W</p>
ECU-DC2	<p>Option for ECU-3/6</p> <p>ECU-DC2: Directional coupler, 80MHz-1000MHz, 50dB, 1500W</p>
ECU-DC3	<p>Option for ECU-3/6</p> <p>ECU-DC3: Directional coupler,1GHz-4GHz, 40dB, 600W</p>
ECU-DC34	<p>Directional Coupler, type C8000</p> <p>Frequency Range: 600MHz to 6GHz</p> <p>Coupling: 30dB</p> <p>Maximum Input Power: 100 Watt</p>

ECU-DC3B	Option for ECU-3/6 ECU-DC3: Directional coupler,0,8GHz-4,2GHz, 40dB, 600W
ECU-DC4	Option for ECU-6 ECU-DC4: Directional coupler, 2GHz-8GHz, 40dB, 600W
ECU-EXPM	Option for ECU-3/6 ECU-EXPM: External modulation input for generation of pulsed signals e.g. radar pulses acc. to automotive standards (This option requires an optional external LF-generator)
ECU-KS2	Cable-set and GPIB-interface for immunity test systems with 2 amplifiers. Consisting of: 1pc. "National Instruments" GPIB-interface 1set Bus cable and RF-cables The Control-PC is not included.
ECU-KS3	Cable-set and GPIB-interface for immunity test systems with 3 amplifiers. Consisting of: 1pc. "National Instruments" GPIB-interface 1set Bus cable and RF-cables The Control-PC is not included.
ECU.KS4	Cable-set and GPIB-interface for immunity test systems with 4 amplifiers. Consisting of: 1pc. "National Instruments" GPIB-interface 1set Bus cable and RF-cables The Control-PC is not included.
ECU-LAN	Option for ECU-3/6 ECU-LAN: additional interface: LAN
ECU-LWL-U1	Fiber Optical Transmission Line for analogue voltage signals for connection with ECU-3/6 Especially hardened for application in EMI-measurements and EMS-tests Transmitting voltage: 0 to 10V consisting of 2 pcs transceiver (battery supplied) integrated into shielded box with rubber protection Channels: 1 Battery supply: 5 pc NiMH-batteries, 4Ah Operation time: >30h 5-pin charging connector Dimension per unit: 136mm x 86mm x 65mm Weight: 800g 1 pc 20m optical fiber FSMA/ duplex multimode fiber 62.5/125µm 2 pc Power charger Optional available (not included): PS-11E (no extra costs) Permanent power supply of transceiver, which is used outside the shielded room, instead of internal batteries and charger PS-12E External RF-shielded power supply PS-AKKU external battery pack External filter depending on application
ECU-OUT2	Option for ECU-3/6 ECU-OUT2: Switching between 2 outputs antenna/ load
ECU-OUT3	Option for ECU-3/6 ECU-OUT3: Switching between 3 outputs Antenna/ Load
ECU-PM1	Option for ECU-3/6 ECU-PM1: Power meter/ RF-milli-voltmeter, 10kHz-500MHz, 2 channel
ECU-PM1A	Option for ECU-3/6 ECU-PM1A: Power meter/ RF-milli-voltmeter, 10kHz-500MHz, 1 channel
ECU-PM2	Option for ECU-3/6 ECU-PM2: Power meter/ RF-milli-voltmeter, 100kHz-6GHz, 2 channel
ECU-PM2A	Option for ECU-3/6 ECU-PM2: Power meter/ RF-milli-voltmeter, 100kHz-6GHz, 1 channel
ECU-PM2B	Option for ECU-3/6 ECU-PM2: Power meter/ RF-milli-voltmeter, 10kHz-1GHz, 1 channel

ECU-REC2	Option for ECU-3/6 ECU-REC2: Connection of 2 measuring receivers/ spectrum analyzer
ECU-SW6	Option for ECU-3/6 ECU-SW6: Standard-software for testing acc. to IEC/ EN 61000-4-6
ECU-WARN	Option for ECU-3/6 ECU-WARN: Change circuit for control of an optional red/ green light system to signalize following status: 1. status: No test (Generator off)-Door opening allowed 2. status: Test (Generator on)- Door opening forbidden/ XLR-Connector (1-COM-2) Maximum rated values: 230V AC/DC, 200mA
RF-RELAY-SWITCHING UNITS - RSU	
RSU 0213	RF Switching Box with 1 Relays (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 1 Switching from 1 input to 3 outputs (1x3)
RSU 0223	RF Switching Box with 2 Relays (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 2 Switching from 1 input to 3 outputs (1x3)
RSU 0233	RF Switching Box with 3 Relays (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 3 Switching from 1 input to 3 outputs (1x3)
RSU 0243	RF Switching Box with 4 Relays (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 4 Switching from 1 input to 3 outputs (1x3)

RSU 1203	<p>RF Switching Box with 1 Relay (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 1 Switching from 1 input to 2 outputs (1x2)</p>
RSU 1203-40	<p>RF Switching Box with 1 Relay (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...40GHz. Connector: SMA 2.9 (10W@40GHz) Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 1 Switching from 1 input to 2 outputs (1x2)</p>
RSU 1213	<p>RF Switching Box with 4 Relays 1 (1x2), 1 (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 1 1 is switching from 1 input to 2 outputs (1x2) 1 are switching from 1 input to 3 outputs (1x3)</p>
RSU 1223	<p>RF Switching Box with 5 Relay 1 (1x2), 2 (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 3 1 are switching from 1 input to 2 outputs (1x2), 2 are switching from 1 input to 3 outputs (1x3)</p>
RSU 1233	<p>RF Switching Box with 4 Relays for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 4 from this: 1 is switching from 1 input to 2 outputs (1x2) 3 are switching from 1 input to 2 outputs (1x3)</p>

RSU 2203	<p>RF Switching Box with 2 Relays (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 2 Switching from 1 input to 2 outputs (1x2)</p>
RSU 2203-40	<p>RF Switching Box with 2 Relays (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...40GHz. Connector: SMA 2.9 (10W @40GHz) Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 2 Switching from 1 input to 2 outputs (1x2)</p>
RSU 2213	<p>RF Switching Box with 3 Relays 2 (1x2), 1 (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 3 2 are switching from 1 input to 2 outputs (1x2) 1 is switching from 1 input to 3 outputs (1x3)</p>
RSU 2223	<p>RF Switching Box with 5 Relay 2 (1x2), 3 (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 4 2 are switching from 1 input to 2 outputs (1x2) 2 are switching from 1 input to 3 outputs (1x3)</p>
RSU 3203	<p>RF Switching Box with 3 Relays (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 3 Switching from 1 input to 2 outputs (1x2)</p>

RSU 3203-40	RF Switching Box with 3 relays for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...40GHz. Connector: SMA 2,9 (10W@40GHz) IEEE 488-interface Quantity of switching relays: 3
RSU 3213	RF Switching Box with 4 Relays 3 (1x2), 1 (1x3) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 4 1 is switching from 1 input to 2 outputs (1x2), 3 are switching from 1 input to 3 outputs (1x3)
RSU 4203	RF Switching Box with 4 Relays (1x4) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 4 Switching from 1 input to 2 outputs (1x2)
RSU 4203-40	RF Switching Box with 4 Relays (1x4) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...40GHz. Connector: SMA 2,9 (10W@40GHz) Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 4 Switching from 1 input to 2 outputs (1x2)
RSU 5203	RF Switching Box with 5 Relays (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...12GHz. Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 5 2 relays of them are coupled-switch able Switching from 1 input to 2 outputs (1x2)

RSU 5203-40	RF Switching Box with 5 Relays (1x2) for computer-controlled switching of RF-signals for EMC-applications in the frequency-range DC...40GHz. Connector: SMA 2,9 (10W@40GHz) Operation: 1. Manual operation 2. PC-controlled by IEEE 488 and RS232-interface LED-Display of switching status Quantity of switching relays: 5 2 relays of them are coupled-switch able Switching from 1 input to 2 outputs (1x2)
RSU-IL	Option: Interlock-switch relay switching unit RSU All relays 1/3 are switched into position neutral as soon as the contact is opened (No path connected) Connector output: BNC
2/4 CHANNEL RF-POWER METERS	
PMS 1084	2-Channel RF-Power-Meter (4-channels optional) Frequency range: 100kHz - 6GHz Measuring range: 100kHz - 4GHz: -60dBm to +20dBm 4GHz - 6GHz: -45dBm to + 20dBm RF-impedance: 50 Ohms Interfaces: RS 232, USB Included are: - power cord - application software - LabView-driver - Manual
PMS 1084B	2-Channel RF-Power-Meter (4-channels optional) Frequency range: 10kHz - 500MHz Measuring range: -50dBm to +27dBm RF-impedance: 50 Ohms Interfaces: RS 232, USB Included are: - power cord - application software - LabView-driver - Manual
PMS-CHA	Expansion of 1 measuring channel of PMS-1084 (Optional expansion of PMS-1084 up to 4-channels is possible) Frequency range: 100kHz - 6GHz Measuring range: 100kHz - 4GHz: -60dBm to +20dBm 4GHz - 6GHz: -45dBm to + 20dBm RF-impedance: 50 Ohms
PMS-CHAB	Expansion of 1 measuring channel of PMS-1084B Frequency range: 10kHz - 500MHz Measuring range: -50dBm to +27dBm RF-impedance: 50 Ohms (Optional expansion of PMS-1084 up to 4-channels is possible)
ANTENNAS & ACCESSORIES	

ALX-4000	Broadband Antenna for emission and immunity measurements Frequency-range: 25MHz - 4GHz Maximum Input-power: 100MHz: 900W 500MHz: 300W 1000MHz: 210W 2000MHz: 140W 3000MHz: 100W
ALX-4000E	Broadband Antenna for emission and immunity measurements Especially optimized version with low antenna factor for emission measurements Frequency-range: 25MHz - 4GHz Maximum Input-power: 100W cw; 200W (modulated)
ALX-8000E	Broadband Antenna for emission and immunity measurements Especially optimized version with low antenna factor for emission measurements Frequency-range: 25MHz - 8GHz Maximum Input-power: 100W cw; 200W (modulated)
AXL-200	Double stacked log. Per. Antenna. for tests acc. to automotive standards Frequency range: 200MHz - 2500MHz Typ. gain: 9dBi±2dBi Maximum input: 1kW N-socket Shipping Container: 94x93x45cm. Weight 13.5 kg.
AXL-80	Stacked Broadband Antenna Frequency range: 80MHz - 4GHz Typ. gain: 9dBi±2dBi Maximum input: 1kW N-socket Quick installation and deinstallation
AXL-80-6G	Stacked Broadband Antenna Frequency range: 80MHz - 10,5GHz Typ. gain: 9dBi±2dBi Maximum input: 1kW N-socket Quick installation and deinstallation Tip protected by radom Especially recommended for tests according to EN61000-4-3
AXL-80S	Double Stacked Broadband Antenna Special version reduced design compared to standard version AXL-80 Antenna diameter <150cm also usable for automotive component tests according to ISO 11452-2 Frequency-range: 80MHz - 4GHz Typ. gain: 9dBi±3dBi Maximum input: 1kW N-input socket Quick installation and de-installation
HAX-18	Horn Antenna Frequency-range: 800MHz - 18GHz Gain: 6dBi - 16dBi Maximum input power: 300W cw (500W peak) Input socket: N

HAX-40	Horn Antenna Frequency-range: 14GHz - 40GHz Gain:15dBi - 20dBi Maximum input power: 1kW Input socket: SMA-compatible
HAX-6	Horn Antenna Frequency-range: 0.5-6GHz Gain: >12dBi (from 1GHz) Maximum input power: 300W cw, 500W interm. Input socket: N Other data: see catalogue
HAX-6-KFZ	Horn Antenna especially recommended for automotive components tests Frequency-range: 1-6GHz Gain: >12dBi Maximum input power: 300W cw, 500W interm. Input socket: N
LAX-10	Active Loop Antenna for magnetic field measurement Frequency range: 9kHz - 30MHz Antenna factor for fictive E-field: 20dB/m Antenna factor for H-field: -31,5 dB/ cm Connector: BNC Loop diameter: 0,5m Battery pack charger
MAX-18	Double stacked log-per antenna for emission measurement and immunity tests Frequency range: 0.7GHz - 18GHz typ. gain: 8.6dBi Maximum input power: 50W Input socket: N
MAX-9	Double stacked log-per antenna for emission measurement and immunity tests acc. to IEC/ EN 61000-4-3 Frequency range: 0.7GHz - 10.5GHz typ. gain: 10dBi Maximum input power: 300W (at 1GHz), 150W (at 6GHz)
SAM-18	Biconical antenna for usage in microwave range for generation of electrical fields under free space conditions for example measurement of SVSWR acc. to CISPR 16-4-1 Frequency range: 3GHz - 18GHz typ. gain: Maximum input power: Input socket:
SAM-6	Biconical antenna for usage in microwave range for generation of electrical fields under free space conditions for example measurement of SVSWR acc. to CISPR 16-4-1 Frequency range: 1GHz - 6GHz

SAX-10	Active Rod Antenna Vertical monopole antenna Frequency range: 9kHz - 30MHz typ. gain: +10dB/m \pm 1,5dB Connector: BNC Battery pack
SAX-ACS110	Charger for usage with SAX-10
SAX-CA	Calibration adapter for SAX-10
SAX-DIV	20dB -Divider for extension of E-measuring range of SAX-10, including calibration data
SAX-GP	Ground plane 0.6m x 0.6m for usage with
SAX-MIL461	Bonding kit for SAX-10 acc. MIL-STD-461F consisting of a BNC cable double shielded ca. 70 cm, with braid current blocking ferrite in the center, elbow aluminum angle with BNC bulkhead adapter.
PRE-AMPLIFIER	
FPA-2	Broadband Preamplifier Frequency range: 9kHz - 2GHz typ. gain: 28dB low noise ESD-protected Connector N/N includes power supply
FPA-26	Broadband Preamplifier Frequency range: 18GHz - 26.5GHz typ gain: 33dB Adjustment on 22mm antenna pipe includes adapter cable SMA-N includes power supply 12V 250mA Optional: battery pack with charger
FPA-40	Broadband Preamplifier Frequency range: 18GHz - 40GHz typ gain: 30dB Adjustment on 22mm antenna pipe includes adapter cable SMA-N includes power supply 12V 600mA Optional: battery pack with charger
FPA-6	Broadband Preamplifier Frequency range: 10MHz - 6GHz typ. gain: 30dB low noise Connector N/N incl. power supply
FPA-6A	Broadband Preamplifier Frequency range: 10MHz - 6GHz typ. gain: 28dB low noise ESD-protected Connector N/N includes power supply
FPA-6B	Broadband Preamplifier Frequency range: 9kHz - 6GHz typ. gain: 28dB low noise no ESD-protection Connector N/N includes power supply

FPA-18	Broadband Preamplifier Frequency range: 1GHz - 18GHz typ gain: 33dB Adjustment on 22mm antenna pipe includes adapter cable SMA-N includes power supply 12V 250mA Optional: battery pack with charger
FPA-BAT	Battery pack for FPA-18 includes charger
FPD-01PS	Polarization switch incl. Power supply kit for automatic polarization switching between vertical and horizontal polarization by means of an electrical drive. Useable/mountable with/to any tripod or antenna stand with 3/8" thread. Antenna tube fixture with a diameter of 22mm. Max. antenna weight: 5kg Recommended antenna tripod: Type FSM-1.6 or FSM-2.0

ANTENNA MASTS / ANTENNA ADAPTERS / POLARIZATION SWITCH / CONTROLLER	
FSM-1.6	Antenna Stand Height manual adjustable from 0.9m to 1.6m Polarization: manual vertical/ horizontal
FSM-2.0	Antenna Stand Height manual adjustable from 1.2m to 2.0m Polarization: manual vertical/ horizontal
FSM-2.5	Antenna Stand. Height manual adjustable from 1.2m to 2.5m Polarization: manual vertical/ horizontal
FSM-4.0	Manual Mast Height manual adjustable from 0.9m to 4.0m Polarization: manual vertical/ horizontal
FSM-EXT	Extension for Tripod FSM
PPS	Pneumatical switching of polarization of FSM-1.6 and FSM-2.0 Polarization: vertical/ horizontal (an additional pneumatical switch is necessary)
MA	Mast adapter to Frankonia Mast/ Tripod for antenna with 22mm rod
MAD	Mast adapter for FSM-1.6 and FSM-2.0 for 22mm rod double stacked antenna
MAS	Mast adapter for FSM-1.6 and FSM-2.0 for 22mm antenna rods
MAF	Mast adapter for FSM-1.6 and FSM-2.0 for 22mm antenna rods and FSM-EP1
FAM 2-4	Automatic Antenna Mast DIN EN 55022, CISPR 22 Class B Type: FAM 2-4 Antenna Height Scan electrical: 0.9m - 4m Polarization electric: 0°-90° vernier adjustment possible Polarization accuracy: 0.2° Total height: 4.5m External dimensions: 1.2m x 0.9m x 4.5m Weight: 85kg Maximum antenna weight 12kg
FAM 2-6	Automatic Antenna Mast DIN EN 55022, CISPR 22 Class B Type: FAM 2-6 Height scan electrical: 0.9m bis 6m Polarization accuracy: ± 5mm Polarization electric: 0°-90° vernier adjustment possible Polarization accuracy: 0.2° Total height: 6.5m External dimensions: 1.2m x 0.9m x 6.5m Weight: 92kg Maximum antenna weight: 12kg
FPD-01	Polarization Switching Unit Type FPD-01 for automatic polarization switching between vertical and horizontal polarization by means of an electrical drive. Useable/mountable with/to any tripod or antenna stand with 3/8" thread. Antenna tube fixture with a diameter of 22mm. Maximum antenna weight: 5kg Recommended antenna tripod: Type FSM-1.6 or FSM-2.0

FC-06	<p>Controller, type FC-06 for the control of Frankonia antenna masts and turntables. The standard version allows the control of one antenna mast and one turntable (optional up to 6 devices). Fiber optic connectors from controller to turntable and antenna mast : FSMA, 660nm Interfaces: GPIB (IEEE 488.2), USB Included in the delivery: - Control-, Display Software - Fiber optics</p>
FC-06P	<p>Controller, type FC-06 includes 24V output for the control of Frankonia antenna masts and turntables. The standard version allows the control of one antenna mast, one turntable and one Polarization unit (switch) (optional up to 6 devices). Fiber optic connectors from controller to turntable and antenna mast : FSMA, 660nm Interfaces: GPIB (IEEE 488.2), USB Included in the delivery: - Control-, Display Software - Fiber optics</p>
FIELD-STRENGTH METERS - EFS	
EFS-LASER	<p>Field-strength-meter - Laser E-Field Probe Frequency range: 10kHz to 6GHz Measuring range: 0,1V/m to 10.000V/m Resolution: <0,01dB Measuring data: X, Y, Z, total field strength Isotropy: <1dB @900MHz</p>
EFS-10	<p>Field-strength-meter E-Field Probe Frequency range: 10kHz to 9,25GHz Measuring range: 0,5V/m to 500V/m Resolution: 0,01V/m Measuring data: X, Y, Z, total field strength Isotropy: 0,5dB (typ. 0,3dB) @50MHz Operation time: Maximum 80h Consisting of: E-field probe (weight 25g, diameter 53mm) 10m fiber optical cable to RS-232-adaptor includes RS232-USB adaptor Battery charger Calibration report with data</p>
EFS-100	<p>Field-strength-meter E-Field Probe Frequency range: 100kHz to 9,25GHz Measuring range: 0,14V/m to 140V/m Resolution: 0,01V/m Measuring data: X, Y, Z, total field strength Isotropy: 0,5dB (typ. 0,3dB) @50MHz Operation time: Maximum 80h Consisting of: E-field probe (weight 25g, diameter 53mm) 10m fiber optical cable to RS-232-adaptor includes RS232-USB adaptor Battery charger Calibration report with data</p>

EFS-5	Field-strength-meter E-Field Probe Frequency range: 5kHz to 9,25GHz Measuring range: 1,5V/m to 1500V/m Resolution: 0,01V/m Measuring data: X, Y, Z, total field strength Isotropy: 0,5dB (typ. 0,3dB) @50MHz Operation time: Maximum 80h Consisting of: E-field probe (weight 25g, diameter 53mm) 10m fiber optical cable to RS-232-adaptor includes RS232-USB adaptor Battery charger Calibration report with data
EFS-300	Field-strength-meter - E-Field Probe Frequency range: 300kHz to 18GHz Measuring range: 0,17V/m to 170V/m Resolution: 0,01V/m Measuring data: X, Y, Z, total field strength Isotropy: 0,5dB (typ. 0,3dB) @50MHz Operation time: Maximum 80h Consisting of: E-field probe (weight 25g, diameter 53mm) 10m fiber optical cable to RS-232-adaptor includes RS232-USB adaptor Battery charger Calibration report with data
EFS-OF20	Optical fiber 20m for field strength meter EFS-10/ EFS-100
EFS-OF40	Optical fiber 40m for field strength meter EFS-10/ EFS-100
EFS-500	The Frankonia EFS field-strength-meters especially have been designed for field strength measurements / field homogeneity measurements during radiated immunity tests according to IEC/EN 61000-4-3.
EFS-SWITCH	Switching Relay for up to 10 pcs. of field meters type EFS. Connection of up to 5 pcs EFS-SWITCH possible. Interface to PC: COM , USB
EFS-TR	Tripod for Field strength sensor EFS, made from plastics/ wood Height adjustable from 0,8m to 2,3m for measurement of Homogeneous field acc. IEC/ EN 61000-4-3
TE-ES	Tripod for Field strength sensors, cameras, small antennas made from wood with extension rod. Height adjustable from 0,8m to 2,3m for measurement of homogeneous field acc. IEC/ EN 61000-4-3 includes floor spider
SOFTWARE	
BCI-LAB	Control Software for immunity tests acc. to DIN ISO 11452-4 for WINDOWS XP, 7
BCI-LAB UP	Upgrade 5.xx of RF-LAB Upgrade contains following new features: >Adaptation to the latest standards >improved spec. of equipment >improved Display on monitor -Windows XP, 7 and much more Additional driver of measuring device in SW: CD-Lab/ RF-LAB

CD/RF-LAB	Control Software. Software package, consisting of control software - CD-LAB for immunity tests acc. to IEC 61000-4-6 and - RF-LAB for immunity tests acc. to IEC 61000-4-3, -Windows XP, 7
CD-LAB	Control Software for immunity test acc. to IEC 61000-4-6, for WINDOWS 2000, XP
CD-LAB UP	Upgrade to 5.xx of CD-LAB Upgrade contains following new features: >Adaptation to the latest standards >improved spec. of equipment >improved Display on monitor -Windows XP, 7 and much more
CD-RF-LAB UP	Upgrade 5.x of RF- and CD-LAB The update is always the latest version. Upgrade contains following new features: >Adaptation to the newest standards >improved spec. of equipment >improved Display on monitor -Windows XP, 7 and much more
EM-LAB	Control Software for conducted and radiated emission measurements acc. to CISPR-, FCC-, EN-Standards, for WINDOWS XP, 7
EM-LAB-AUTO	Option: Automation of EMI-Measurements with EM-LAB for control of masts, turntables, ...for WINDOWS XP, 7
RF-LAB	Control Software for immunity tests acc. to IEC 61000-4-3, ISO11452-2, etc. and measurement of the uniform area, for WINDOWS XP, 7
RF-LAB UP	Upgrade 5.xx of RF-LAB Upgrade contains following new features: >Adaptation to the latest standards >improved spec. of equipment >improved Display on monitor -Windows XP, 7 and much more
RF-LAB-A	Additional module: Audio break-through measurements acc. to ETSI EN301489. This option requires the basic version of the software RF-LAB
EMISSION	
CORE-6	EMI receiver For conducted and radiated emission measurements. Compliant acc. to CISPR-16-1-1, MIL-STD-461F, VDE 0876 and ANSI C 63.4 Frequency range: 9kHz to 6GHz Measuring modes: Automatic Scan, Spectrum mode, manual mode Detectors: Peak, Quasi-Peak, Average, RMS, RMS-average, CISPR-average -Operation with a standard PC -includes comfortable measuring and report software "EM-Lab" -Free software updates -CISPR and MIL-STD Filter (optional) -Integrated Pre-amplifier (20dB up to 1GHz, 15dB >1GHz) -Integrated pulse-limiter up to 30MHz I/O Interface: USB, RS-232, user port for accessories Housing: 19" Rack unit, 1RU Dimensions: 482mm x 45mm x 362mm (BXHXT) Weight: 5kg
CORE-MIL	Option: compliance to military standards
CORE-FFT	Option: FFT-Analysis for measuring receiver CORE-6

C2-16	Line Impedance Stabilization Network (LISN) compliant to CISPR 16; Frequency range: 9kHz- 30MHz; Characteristics: (50 μ H+5 Ohm)//50 Ohm; Phases: 1+N; Manual and automatic switch of phases; Max AC-voltage: 250V rms; Current: 2 x 16A
C4-32	Line impedance stabilization network (LISN) compliant to CISPR 16; Frequency range: 9kHz- 30MHz; Characteristics: (50 μ H+5 Ohm)//50 Ohm; Phases: 3+N; Manual and automatic switch of phases; Max AC-voltage: 250V rms; Current: 4 x 32A
ACF-01B	Absorption Power Clamp for measurement of absorption power acc. to CISPR 14, CISPR 16 and EN 55014-1 Frequency range: 30 - 1000Mhz Ball-bearing and silicon covered wheels for permanent usage
CVP-1	RF-Probe Input resistance: 1500 Ohm Frequency range: 9kHz - 30MHz Attenuation: 30dB
LVVL	Van Veen Loop Antenna For magnetic-field measurements acc. to EN 55015/CISPR 15 Frequency-range: 9kHz- 30MHz Includes all three axes with wooden frame and all connecting cables. Each antenna individually calibrated with calibration certificate. Calibration kit optional. Diameter: 2,0m Dimensions: 2,1m x 2,1m x 2,6m (h) Output: 50 Ohms BNC
C-LVVL	Calibration kit for Van Veen Loop Antenna
NFS-100	Near-Field-Probe-Set Consisting of: - 1 pc. E-field-probe, 1MHz to 500MHz, BNC-connector, 15cm rod - 1 pc. H-field-probe, 1MHz to 500MHz, BNC-connector, 50mm diameter
Emission Reference Source - ERS	
RSE-1000	Emission Reference Source Including calibration data, measured on a full-compliance OATS acc. to CISPR 16-1-4 in 3,0m measuring distance in vertical and horizontal polarization. The comb generator radiates every 2Mhz a precise peak over the frequency-range from 30MHz to 1000MHz.

GTEM-CELLS & ACCESSORIES	
GTEM 250	<p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power input, W continuous/pulsed*:500*/1000 Dimensions: 1.27m x 0.64m x 0.44m (L x W x H) Door size: 30cm x 23cm (WXH) Maximum EUT-Size: 20cm x 20cm x 15cm (L x W x H) Size of uniform area (+/-3dB <1GHz): 15cm x 15cm x 10cm (L x W x H) Septum height: 250mm Input impedance: 50 ohms / Input connector N includes feed-thru box equipped with: 1 pc. 2x6A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA Weight: ca. 30kg Packing costs are included. Assembly costs are not included.</p>
GTEM 400	<p>GTEM Cell Frequency range: 100kHz to 20GHz Maximum power-input, W continuous/pulsed*:500*/1000 Dimensions:2.20m x1.22m x 0.83m (LxWxH) Door size: 40cm x 40cm (WxH) Maximum EUT-Size: 35cm x 40cm x 25cm (LxWxH) Size of uniform area (+/-3dB <1GHz): 25cm x 30cm x 13cm (LxWxH) Septum height: 400mm Input impedance: 50 ohms / Input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pc. coax-feed-thru, type SMA Weight: 120kg includes wheeled undercarriage Packing costs are included. Assembly costs are not included.</p>
GTEM 500	<p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power-input, W continuous/pulsed*:500*/1000 Dimensions: 3.00m x1.68m x 1.15m (L x W x H) Door size: 40cm x 40cm (WxH) Maximum EUT-Size: 40cm x 40cm x 30cm (L x W x H) Size of uniform area (+/-3dB <1GHz): 30cm x 35cm x 17cm (L x W x H) Septum height: 500mm Input impedance: 50 ohms / Input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA 1 pc. unequipped technical panel Weight: 250kg includes wheeled undercarriage Packing costs are included. Assembly costs are not included.</p>

GTEM 750	<p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power-input, W continuous/pulsed*:700*/1500 Dimensions: 4.0m x 2.20m x 1.50m (L x W x H) Door size: 60cm x 60cm (W x H) Maximum EUT-Size: 60cm x 60cm x 50cm (L x W x H) Size of uniform area (+/-3dB <1GHz): 45cm x 45cm x 25cm (L x W x H) Septum height: 750mm Input impedance: 50 ohms / input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. Socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA 2 pcs. unequipped technical panels includes wheeled undercarriage Weight: 400kg Packing costs are included. Assembly costs are not included.</p>
GTEM 1000	<p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power input, W continuous/*pulsed:700W*/ 1500W Dimensions: 5.00m x 2.71m x 1.88m (L x W x H) Door size: 80cm x 80cm (W x H) Maximum EUT-Size: 75cm x 75cm x 70cm (L x W x H) Size of uniform area (+/-3dB <1GHz): 60cm x 60cm x 30cm (L x W x H) Septum height: 1.000mm Input impedance: 50 ohms / input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. Socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. Coax-feed-thru, type "N" 2 pcs. Coax-feed-thru, type "SMA" 2 pcs. unequipped technical panels includes wheeled undercarriage Weight: ca. 700kg Packing costs are included. Assembly costs are not included.</p>
GTEM 1250	<p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power-input; W continuous/*pulsed:800/1200* Dimensions: 6.10m x 3.20mx 2.15m (L x W x H) Door size: 80cm x 110cm (W x H) Maximum EUT-Size: 95cm x 95cm x 85cm (L x W x H) Size of uniform area (+/-3dB < 1GHz): 75cm x 75cm x 42cm (L x W x H) Septum height: 1.250 Input impedance: 50 ohms / input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA includes wheeled undercarriage 1 pc. unequipped technical panel Weight: 850kg Packing costs are included. Assembly costs are not included.</p>

GTEM 1500	<p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power-input, W continuous/*pulsed:850/1300* Dimensions: 7.10m x 3.81m x 2.50m (L x W x H) Door size: 0.80m x 1.20m (W x H) Maximum EUT-Size: (L x W x H) 1.20m x 1.20m x 1.00m Size of uniform area (+/-3dB <1GHz): 1.00m x 1.00m x 0.50m Septum height: 1.500mm Input impedance: 50 ohms / input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA 1 pc. unequipped technical panel includes wheeled undercarriage Weight: 1000kg Packing costs are included. Assembly costs are not included.</p>
GTEM 1750	<p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power-input, W continuous/*pulsed:900/1400* Dimensions: 8.10m x 4.30m x 2.80m (L x W x H) Door size: 0.80m x 1.30m (W x H) Maximum EUT-Size: (L x W x H) 1.40m x 1.40m x 1.15m Size of uniform area (+/-3dB <1GHz): 1.25m x 1.25m x 0.58m Septum height: 1.750mm Input impedance: 50 ohms / input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA 2 pcs. unequipped technical panels includes wheeled undercarriage Weight: 1300kg Packing costs are included. Assembly costs are not included.</p>
GTEM 2000	<p>GTEM-Cell Frequency range: 100kHz to 20GHz Maximum power-input, W continuous/*pulsed: 1000/1600* Dimensions: 9.10m x 4.84m x 3.14m (L x W x H) Door size: 0.80m x 1.60m (W x H) Maximum EUT-Size: (L x W x H)1,75m x 1,75m x 1,30m Size of uniform area (+/-3dB <1GHz): 1.50m x 1.50m x 0.65m Septum height: 2.000mm Input impedance: 50 ohms / input connector N includes feed-thru box 1 pc. 2x10A power line filter incl 1 pc. socket (Schuko) inside 1 pc. fiber optical feed-thru (3 couple) 1 pc. coax-feed-thru, type N 2 pcs. coax-feed-thru, type SMA 2 pcs. unequipped technical panels includes wheeled undercarriage Weight: 1650kg Packing costs are included. Assembly costs are not included.</p>
GTEM-B01	OPTION B01: EIA 7/8" Input Connector (Maximum 3GHz)

GTEM-B02	OPTION B02: EIA 7/16" Input Connector (Maximum 3GHz)
GTEM-B04	OPTION B04: Upgrade Input Power 1400W (up to 3GHz) The max. input power is limited by the specification of the max input power of the selected GTEM
GTEM-B05	OPTION B05: fibre optical feed-thru (3 Pairs)
GTEM-B06	OPTION B06: N-Feed thru
GTEM-B07	OPTION B04: SMA-feed thru
GTEM-B08	OPTION B08: Additional power socket for EUT
GTEM-B09	OPTION B09: Internal illumination (Halogen, 50 W)
GTEM-B09L	OPTION B09L: Internal illumination (LED, 20 W)
GTEM-B10	OPTION B10: AC line filter 16A/5 wires
GTEM-B11	OPTION B11: EMI-Filter Upgrade 2x10A to 4x32A 440V/ 250V AC/ DC Only for GTEM 750/1000/ 1250/ 1500/ 1750/2000
GTEM-B12	OPTION B12: Filter 4 x 64A, 440V/ 250V AC/ DC Only for GTEM 750/1000/ 1250/ 1500/ 1750/2000
GTEM-B13	OPTION B13: Interlock relay at the door
GTEM-B14	OPTION B14: DSub Signal Line Filter (25 pin)
GTEM-B15	OPTION B15: Second door close to input Only for GTEM 750/1000/ 1250/ 1500/ 1750/2000
GTEM-B16	OPTION B16: Window in door Diameter 200mm
GTEM-B17	OPTION B17: Gas/ Water feed thru panel
GTEM-B18	OPTION B18: Honeycomb Not available for GTEM-250
GTEM-B19	OPTION B19: Fans (2 pcs) on technical panel Not available for GTEM-250
GTEM-B20	OPTION B20: Door for tests acc. to SAE J1752/3 Only for GTEM 750/1000/ 1250/ 1500/ 1750/2000
GTEM-B21	OPTION B21: Wheeled Undercarriage (GTEM 250)
GTEM-B23	OPTION B23: Vertical positioning turn of door position, plastic table over pyramids only for GTEM 250/ 500
GTEM-B25	OPTION B25: 9 pin DSUB Filter
GTEM-B26	OPTION B26: Integrated circuit testing
GTEM-B27	OPTION B27: installation panel (not equipped)
GTEM-B28	OPTION B28: Fan kit includes channel for heat sink
GTEM-B29	OPTION B29: fiber optical feed through (1 pair)
GTEM-B30	OPTION B30: Input Power 1600W (3GHz) only for GTEM-500 to GTEM 2000
GTEM-B31	OPTION B30: Input Power 1000W (3GHz) only for GTEM-250
GTEM-B32	OPTION B32: fibre optical feed-thru (6 Pairs)
MAN-1000M	Manually operated EUT-manipulator (x-y-z) for GTEM-1000 The FRANKONIA GTEM EUT-manipulator is a solution for easily rotating the EUT into the three orthogonal axis positions acc. to IEC/EN 61000-4-20. The EUT can be rotated by 120 degrees and optionally in 5, 10 and 60 degree increments. Maximum EUT weight: 25kg Maximum EUT size: 33cm x 33cm x 33cm
MAN-1250M	Manually operated EUT-manipulator (x-y-z) for GTEM-1250. The FRANKONIA GTEM EUT-manipulator is a solution for easily rotating the EUT into the three orthogonal axis positions acc. to IEC/EN 61000-4-20. The EUT can be rotated by 120 degrees and optionally in 5, 10 and 60 degree increments. Maximum EUT weight: 25kg Maximum EUT size: 41cm x 41cm x 41cm

MAN-1500M	<p>Manually operated EUT-manipulator (x-y-z) for GTEM-1500. The FRANKONIA GTEM EUT-manipulator is a solution for easily rotating the EUT into the three orthogonal axis positions acc. to IEC/EN 61000-4-20. The EUT can be rotated by 120 degrees and optionally in 5, 10 and 60 degree increments. Maximum EUT weight: 25kg Maximum EUT size: 50cm x 50cm x 50cm</p>
MAN-1750M	<p>Manually operated EUT-manipulator (x-y-z) for GTEM-1750. The FRANKONIA GTEM EUT-manipulator is a solution for easily rotating the EUT into the three orthogonal axis positions acc. to IEC/EN 61000-4-20. The EUT can be rotated by 120 degrees and optionally in 5, 10 and 60 degree increments. Maximum EUT weight: 30kg Maximum EUT size: 60cm x 60cm x 60cm</p>
MAN-500M	<p>Manually operated EUT-manipulator (x-y-z) for GTEM-500 The FRANKONIA GTEM EUT-manipulator is a solution for easily rotating the EUT into the three orthogonal axis positions acc. to IEC/EN 61000-4-20. The EUT can be rotated by 120 degrees and optionally in 5, 10 and 60 degree increments. Maximum EUT weight: 10kg Maximum EUT size: 16.7cm x 16.7cm x 16.7cm</p>
MAN-750M	<p>Manually operated EUT-manipulator (x-y-z) for GTEM-750. The FRANKONIA GTEM EUT-manipulator is a solution for easily rotating the EUT into the three orthogonal axis positions acc. to IEC/EN 61000-4-20. The EUT can be rotated by 120 degrees and optionally in 5, 10 and 60 degree increments. Maximum EUT weight: 15kg Maximum EUT size: 25cm x 25cm x 25cm</p>
OPEN TEM-CELLS	
TEM 220	<p>Open TEM-Cell, type TEM 220 for immunity tests on automotive components acc. to ISO 11452-3 and pre-compliance emission measurements. Frequency-range: DC - 220MHz Height under coupling plate: 333mm Maximum field-strength (1,5kW input): 800V/m Maximum input power: 1,5kW Dimensions: 1.800mm x 1.600mm x 730mm (LXWXH) Weight: 55kg Packaging costs are included</p>
TEM 500	<p>Open TEM-Cell, type TEM 500 for immunity tests on automotive components acc. to ISO 11452-3 and pre-compliance emission measurements. Frequency-range: DC - 500MHz Height under coupling plate: 147mm Maximum field-strength (1kW input): 1.550V/m Maximum input power: 1kW Dimensions: 1.020mm x 900mm x 360mm (LXWXH) Weight: 13,5kg</p>
TEM 1000	<p>Open TEM-Cell, type TEM 1000 for immunity tests on automotive components acc. to ISO 11452-3 and pre-compliance emission measurements. Frequency-range: DC - 1GHz Height under coupling plate: 73mm Maximum field-strength (1kW input): 2.700V/m Maximum input power: 1kW Dimensions: 540mm x 450mm x 168mm (LXWXH) Weight: 3,5kg Packaging costs are included</p>

TEM 3000	<p>Open TEM-Cell, type TEM 3000 for immunity tests on automotive components acc. to ISO 11452-3 and pre-compliance emission measurements.</p> <p>Frequency-range: DC - 3GHz Height under coupling plate: 25mm Maximum field-strength (400W input): 5,6kV/m Maximum input power: 400W Dimensions: 440mm x 180mm x 80mm (LXWXH) Weight: 1.1kg</p> <p>Packaging costs are included</p>
STRIP LINES	
SR50/1000	<p>Strip line, type SR50/1000 Strip-line for immunity-tests acc. to DIN/ISO 11452-5, 50 Ohm - version. Frequency-range: DC to 1GHz Maximum input-power: 1000W (long term) Impedance: 50 Ohm (+/- < 5 Ohm) Wave impedance: 377 Ohm VSWR: better than 1,22 up to 1GHz Dimensions: 4300mm x 1500mm x 1050mm (LXWXH) Height of the table: 950mm Weight: approx. 140kg includes rotating metallic table. For storage the strip line can be divided in parts 2 x (2150mm x 850mm x 1650mm). The packaging costs of the strip line in a wooden</p>
SR 90/1000	<p>Strip-line Strip-line for immunity-tests acc. to DIN/ISO 11452-5, 90 Ohm - version. Frequency-range: DC to 1GHz Maximum input-power: 100W (long term); (>100W with impedance adapter) Impedance: 90 Ohm (+4/ -6 Ohm) Wave impedance: 377 Ohm VSWR: better than 1,92 up to 1GHz Dimensions: 3500mm x 900mm x 1000mm (LXWXH) Height of the table: 850mm Weight: approx. 90kg includes Rotating metallic table. Optional: 50 to 90 Ohm adapter The packaging costs of the strip line in a wooden box is included</p>
SR1000-50/20	<p>Strip line, Typ SR1000-50/20 Strip line for immunity-tests acc. to DIN/ISO 11452-5, 50 Ohm - version. Height under the plate: 20cm Frequency-range: DC to 1GHz Maximum input-power: 1000W (long term) Impedance: 50 Ohm (+/- < 5 Ohm) Wave impedance: 377 Ohm VSWR: better than 1,1 up to 1GHz Dimensions: 4300mm x 1500mm x 1050mm (LXWXH) Height of the table: 900mm Weight: approx. 140kg includes Rotating metallic table. For storage the strip line can be divided in parts 2 x (2150mm x 850mm x 1650mm). The packaging costs of the strip line in a wooden box is included</p>
SRA5090	Adapter 50/90 Ohm

TESTING TABLES (All Tables ship from China)	
KFZ-TI	<p>Test Table with ground-plane Wooden test table (without any metal parts) Dimensions: 2.5m x1.0m x 0.9m, includes Ground-plane (can be taken away) is made from 1.25mm thick, hot galvanized steel sheet. includes copper belts guarantee a low-resistive ground contact to the contact strip at the chamber wall. Length of copper belts: 0.5m DC-Resistance Table- Chamber: < 2.5m ohms table is acc. to ISO 11452 und CISPR 25.</p>
KFZ-KL	<p>Contact Strip Contact strip for electrical contact from the ground plane of the test table to the shielding. The contact strip is mounted between two absorber rows and has a broad contact to the shielding panel. The strip consists of 2 rows of Cu-Be springs. Copper belts (cables) are clamped into the slot to make electrical contact. Length: 2.5m</p>
MT 1.0X0.8	<p>Low Reflexion Testing Table acc. to CISPR 22, CISPR 32 Dimensions (LxWxH): 1000mm x 800mm x 800mm Material: Styropor ESP37 Maximum Load: 200kg Color: light grey (RAL 7035) Cover material: PVC Weight 20kg Packaging costs are not included.</p>
MT 1.5X1.0	<p>Low Reflexion Testing Table acc. to CISPR 22 Dimensions (LxWxH): 1500mm x 1000mm x 800mm Footprint: 1.200mm diameter (suitable for turntables with 1.2 m diameter) Material: Styropor ESP37 Maximum Load: 200kg Color: light grey (RAL 7035) Cover material: PVC Packaging costs are not included.</p>
MT 1.5X1.2	<p>Low Reflexion Testing Table acc. to CISPR 22 Dimensions (LxWxH): 1500mm x 1200mm x 800mm Material: Styropor ESP37 Maximum Load: 200kg Color: light grey (RAL 7035) Cover material: PVC Packaging costs are not included.</p>
MT-R 1.5 X 0.8	<p>Low Reflexion Testing Table acc. to CISPR 22 Diameter:1500mm Height: 800mm Material: Styropor ESP37 Max. Load: 200kg Color: light grey (RAL Packaging costs are not included.</p>

MT 2.0X1.0	<p>Low Reflexion Testing Table acc. to CISPR 22 Dimensions (LxWxH): 2000mm x 1000mm x 800mm Material: Styropor ESP37 Maximum Load: 200kg Color: light grey (RAL 7035) Cover material: PVC Packaging costs are not included.</p>
MT 2.0X1.2	<p>Low Reflexion Testing Table acc. to CISPR 22 Dimensions (LxWxH): 2000mm x 1200mm x 800mm Material: Styropor ESP37 Maximum Load: 200kg Color: light grey (RAL 7035) Cover material: PVC Packaging costs are not included.</p>
FREESTANDING TURNTABLE FTF (All Tables ship from China)	
FTM-0,6-0,2	<p>Turntable, freestanding Type: FTM-0,6-0,3 Mobile turntable with two handles for flexible or fixed installation. Surface cover plate: 8,0mm aluminum Diameter: 0,6m Maximum load: 200kg Slewing range: +200°/-200° Rotational speed: 0,5 rpm - 3 rpm, adjustable in 30 steps Accuracy: 0,1°</p>
FTM-0,8-0,2	<p>Turntable, freestanding Type: FTM-0,8-0,3 Mobile turntable with two handles for flexible or fixed installation. Surface cover plate: 8,0mm aluminum Diameter: 0,8m Maximum load: 200kg Slewing range: +200°/-200° Rotational speed: 0,5 rpm - 3 rpm, adjustable in 30 steps Accuracy: 0,1°</p>
FTF-0,6-0,3	<p>Turntable, freestanding Type: FTF-0,6-0,3 Diameter: 600mm or 800mm (to be chosen) (please specify with the order which diameter) Max. Load: 300kg Height:: 160mm with adjustable stands 152mm without stands Angel of rotation: +/- 360 Grad Positioning accuracy: +/- 0,5 Grad Controllable with the included software or with external controller, type FC-05 (connection via optical fiber) Accessories included: - Control software - Optical Converter for USB - 10m optical fiber - Power supply cable, USB cable</p>
FTF-1.5-0.5	<p>Turn-Table Metallic surface, electrical contacted to the Ground-plane, for step less installation into the raised floor. Diameter: 1,50m Max. load: 500kg Accuracy: 0,1°</p>

FC-05	<p>Controller, type FC-05 for the control of Frankonia antenna masts and turntables (max. 4 instruments). Fiber optic connectors from controller to turntable and antenna mast : FSMA, 660nm Interfaces: GPIB, USB Included in the delivery: - Control-, Display Software - Fiber optics</p>
FC-06	<p>Controller, type FC-05 for the control of Frankonia antenna masts and turntables. The standard version allows the control of one antenna mast and one turntable (optional up to 6 devices). Fibre optic connectors from controller to turntable and antenna mast : FSMA, 660nm Interfaces: GPIB (IEEE 488.2), USB Included in the delivery: - Control-, Display Software - Fibre optics</p>
FC-06P	<p>Controller, type FC-06P incl. 24V output for the control of Frankonia antenna masts and turntables. The standard version allows the control of one antenna mast, one turntable and one Polarization unit (switch) (optional up to 6 devices). Fibre optic connectors from controller to turntable and antenna mast : FSMA, 660nm Interfaces: GPIB (IEEE 488.2), USB Included in the delivery: - Control-, Display Software - Fibre optics</p>
Frankonia Chambers	
AVTC	<p>AUTOMOTIVE VEHICLE TESTING CHAMBER - AVTC Anechoic chamber for vehicle testing</p>
ACTC	<p>AUTOMOTIVE COMPONENT TESTING CHAMBER - ACTC Anechoic chamber for testing of automotive components</p>
CHC	<p>CHC "COMPACT HYBRID CHAMBER" COMPACT ANECHOIC CHAMBER, LINED WITH FERRITE ABSORBERS AND PARTIALLY WITH HYBRID ABSORBERS FOR FULL COMPLIANCE IMMUNITY TESTS ACC. IEC (EN) 61000-4-3 AND PRE- COMPLIANCE EMISSION MEASUREMENTS, MEASURING DISTANCE: 3,0m FREQUENCY-RANGE: 26MHz to 18GHz CONSTRUCTED AS "SEMI-ANECHOIC CHAMBER" A: SHIELDING TECHNIQUE The shielding will be realized as a self-supporting, screwed modular construction. The individual shielding modules are manufactured from hot galvanized sheet steel of a constant thickness of 2mm, which are double-edged at the four sides. The max. dimensions of the individual panels are 3.000mm x 1.200mm (LXW). The perfect, RF-shielded and electrical connection of the individual modules among each other is guaranteed by use of wire mesh gaskets and a screw distance of 75mm. It can be easily assembled (disassembled if necessary) and offers a significant advantage when compared to welded solutions. The construction is totally self-supporting and independent with the main building. The floor of</p>
UCC	<p>UCC - Ultra Compact Hybrid Chamber, 1m test distance</p>
RACK	
RACK	<p>RACK 19" Rack for Installation of Test/Measuring Instruments, moveable on wheels, with front and rear cover. Incl. installation of instruments into rack and all small parts which are necessary for rack mounting</p>
KS-2A	<p>Cable-set and GPIB-interface for immunity test systems with 2 amplifiers. Consisting of: 1pc. "National Instruments" GPIB-interface 1set Bus cable and RF-cables The Control-PC is not included.</p>

KS-EMI	Cable-set for EMI systems Consisting of: 1set Bus cable and RF-cables The Control-PC is not included.
Shielded Optic Converters	
OptoRS232-HS	OptoRS232-HS up to 100kBit/s
OptoRS485	OptoRS485 up to 1Mbit/s
OptoCAN- HS	OptoCAN- HS High speed signal up to 1MBit/s
OptoUART	OptoUART (1RX, 1 TX datastream) with voltage level of 3,3V
OptoUSB2.0-RDIR	OptoUSB2.0-RDIR with HSD cable (2x2m) -480Mbits
OptoUSB 2.0	OptoUSB 2.0