### Megger.

# The **new Variant**: **cable fault location, testing,** and **diagnosis** with one **modular system**



- Modular setup
- Integrated user guidance
- Ergonomic design
- Highest safety standards



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# Variant 1 - 80 Cable fault location system, 1-phased

Method	Base Module	Options	
Operation			
	Single phased, manual switching system NSF 8, air insulated HV switch with integrated FU/EP safety system, 5.7" color TFT, connectors for external insulation tester (1000 V max.)		
Insulation testing			
500 and 1000 V		Integrated automatic or manual insulation, resistance and capacitance measurement, trend measurement (DAR and Pl) of resistance up to 10 min., automatic memory, comparison of measurements ph–ph and ph–N, 6 measurements for resistance ph-ph, 3 measurements for cable capacitance Riso: $1 \Omega \dots 2 G\Omega$ Riso: $1 k\Omega \dots 2 G\Omega$	
Capacity		С: 0,0 µF 19,9 µF	
< 24 V		R: 0,1 Ω 1 kΩ	
HV testing			
DC	0 80 kV, IN 14 mA, I <sub>IIIdx</sub> 50 mA	0 50 kV, I <sub>N</sub> 14 mA, I <sub>IIIax</sub> 50 mA	
		0 100 kV, I <sub>N</sub> 15 mA, I <sub>max</sub> 50 mA	
AC		0 58 kV AC, IN 14 mA, I <sub>max</sub> 50 mA Not possible via the HV cable drum!	
VLF Testing		VLF 54 kVrms 0,1 Hz Cosine Rectangular Voltage, max. cable capacity 5 μF@54 kV, 8 μF@36 kV 21 μF@18 kV	
		VLF sin 54 kV, max. cable capacity 5 μF@38 kV <sub>ms</sub> / 0,01 Hz; 1 μF@38 kV <sub>ms</sub> / 0,1 Hz	
Diagnosis		OWTS Partial discharge measuring system with oscillating voltage close to power frequency	
		Tan δ Measurement in connection with VLF sin	
Character and a	0 F 40 IV 000 A ( 'V DDC F000)		
Sheath testing	0 5, 10 kV, 800 mA, (with BPS 5000)	010 kV, 750 mA (option MFM 10)	
Sheath testing  Prelocation	0 5, 10 kV, 800 mA, (with BPS 5000)	010 kV, 750 mA (option MFM 10)	
	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju		
<b>Prelocation</b> Impulse Reflection	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range fu	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes Sample Rate	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes Sample Rate Pulse width	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz 20 ns 10 µs	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz 20 ns 10 µs 20 m 1280 km bei v/2 = 80 m/µs	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes Sample Rate Pulse width Range Pulse amplitude	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range fumax. 400 MHz  20 ns 10 µs  20 m 1280 km bei v/2 = 80 m/µs  30 160 V	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2:	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz  20 ns 10 μs  20 m 1280 km bei v/2 = 80 m/μs  30 160 V  10149,9 m/μs, ft/μs or NVP	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz  20 ns 10 μs  20 m 1280 km bei v/2 = 80 m/μs  30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range Output impedance	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz 20 ns 10 $\mu$ s 20 m 1280 km bei $\nu$ /2 = 80 m/ $\mu$ s 30 160 V 10149,9 m/ $\mu$ s, ft/ $\mu$ s or NVP > 80 dB 50 $\Omega$	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range Output impedance Accuracy	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz 20 ns 10 $\mu$ s 20 m 1280 km bei v/2 = 80 m/ $\mu$ s 30 160 V 10149,9 m/ $\mu$ s, ft/ $\mu$ s or NVP > 80 dB 50 $\Omega$ Better than 0.1 % of range	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range Output impedance Accuracy Resolution	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz  20 ns 10 μs  20 m 1280 km bei v/2 = 80 m/μs  30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range Output impedance Accuracy Resolution Interface	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz  20 ns 10 μs  20 m 1280 km bei v/2 = 80 m/μs  30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs  LAN, USB, DVI, LON, CAN	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range Output impedance Accuracy Resolution Interface Display	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz  20 ns 10 μs  20 m 1280 km bei v/2 = 80 m/μs  30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs  LAN, USB, DVI, LON, CAN  15" Colour SXGA, CCFL-Backlight, 300cd/m²	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz  20 ns 10 μs  20 m 1280 km bei v/2 = 80 m/μs  30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs  LAN, USB, DVI, LON, CAN  15" Colour SXGA, CCFL-Backlight, 300cd/m²  2 GB each for Program, Data and recovery	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology unction with distance depending attenuation correction	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz  20 ns 10 μs  20 m 1280 km bei v/2 = 80 m/μs  30 160 V  10 149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs  LAN, USB, DVI, LON, CAN  15" Colour SXGA, CCFL-Backlight, 300cd/m²  2 GB each for Program, Data and recovery  -37 +37 db + 0 22dB for ProRange  Automatic storage of all measurements, report printing	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology unction with distance depending attenuation correction	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain Data and reporting	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz  20 ns 10 μs  20 m 1280 km bei v/2 = 80 m/μs  30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs  LAN, USB, DVI, LON, CAN  15" Colour SXGA, CCFL-Backlight, 300cd/m²  2 GB each for Program, Data and recovery  -37 +37 db + 0 22dB for ProRange	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology unction with distance depending attenuation correction  a, also as PDF export or to Winkis software  0 8 / 16 / 32 kV active with LSG 3-E, 2 kV, 640 J	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain Data and reporting HV prelocation	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz  20 ns 10 μs  20 m 1280 km bei v/2 = 80 m/μs  30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs  LAN, USB, DVI, LON, CAN  15" Colour SXGA, CCFL-Backlight, 300cd/m²  2 GB each for Program, Data and recovery  -37 +37 db + 0 22dB for ProRange  Automatic storage of all measurements, report printing	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology unction with distance depending attenuation correction	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain Data and reporting HV prelocation ARM Decay	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz  20 ns 10 μs  20 m 1280 km bei v/2 = 80 m/μs  30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs  LAN, USB, DVI, LON, CAN  15" Colour SXGA, CCFL-Backlight, 300cd/m²  2 GB each for Program, Data and recovery  -37 +37 db + 0 22dB for ProRange  Automatic storage of all measurements, report printing  0 8 / 16 / 32 kV passive with LSG 300  0 U <sub>max</sub> (max. DC test voltage)	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology unction with distance depending attenuation correction  a, also as PDF export or to Winkis software  0 8 / 16 / 32 kV active with LSG 3-E, 2 kV, 640 J  0 2 / 4 kV additional surge stages	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain Data and reporting HV prelocation ARM  Decay Current decoupling	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz  20 ns 10 μs  20 m 1280 km bei v/2 = 80 m/μs  30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs  LAN, USB, DVI, LON, CAN  15" Colour SXGA, CCFL-Backlight, 300cd/m²  2 GB each for Program, Data and recovery  -37 +37 db + 0 22dB for ProRange  Automatic storage of all measurements, report printing	ault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology unction with distance depending attenuation correction  a, also as PDF export or to Winkis software  0 8 / 16 / 32 kV active with LSG 3-E, 2 kV, 640 J  0 2 / 4 kV additional surge stages	
Prelocation Impulse Reflection Measurement modes  Sample Rate Pulse width Range Pulse amplitude Propagation Velocity V/2: Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain Data and reporting HV prelocation ARM Decay	Direct, Difference, Comparison, Average, Intermittent F memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range for max. 400 MHz  20 ns 10 μs  20 m 1280 km bei v/2 = 80 m/μs  30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs  LAN, USB, DVI, LON, CAN  15" Colour SXGA, CCFL-Backlight, 300cd/m²  2 GB each for Program, Data and recovery  -37 +37 db + 0 22dB for ProRange  Automatic storage of all measurements, report printing  0 8 / 16 / 32 kV passive with LSG 300  0 U <sub>max</sub> (max. DC test voltage)	iault location IFL, Simultaneous display of six phases or stment of gain, range and pulse width. ARMslide technology unction with distance depending attenuation correction  a, also as PDF export or to Winkis software  0 8 / 16 / 32 kV active with LSG 3-E, 2 kV, 640 J  0 2 / 4 kV additional surge stages	



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Method	Base Module	Options
Burning		
DC		0 1,2 kV, 6 A; 4 kV, 1,5 A; 8 kV, 0,8 A; 15 kV, 0,5 A
AC		0 60 V, 110 A; 0 220 V, 30 A
Resonance burning		0 15 kV, 20 A with T 22/13
Pinpointing		
Acoustically by surge module	0 8 / 16 kV / 32 kV, 1750 J 2,5 10 s	0 2 / 4 kV, 1150 J
Surge rate		0 8 / 16 / 32 kV, 3500 J
Surge wave receiver		digiPHONE+
Sheath faults		0 10 kV, max. 750 mA (MFM 10)
with DC STep voltage		0 5 kV, 0,8 A 0 10 kV, 0,5 A (with BPS HV)
Step voltage receiver		ESG NT
Audio Frequency		
Output power		200 W
Frequencies		491 Hz, 982 Hz, 8.44 kHz also with SignalSelect, Supermaximum
Impedance		$0.5 \Omega \dots 1 k\Omega$ automatic impedance matching
Sheath fault pinpointing	,	Step voltage probe, direct or capacitive
with AC audio frequence		step voltage probe, direct or capacitive
HV connections	7	
1-phased	ECONOMY: 50 m (manual cable drum)	COMFORT: 50 m (motorised cable drum)
•		PRO: 50 m (motorised slip-ring cable drum)
LV connections, power	er supply	
, ,	Earth potential monitoring, 10 m (manual cable drum)	<b>ECONOMY</b> :  Mains cable 50 m (manual slip-ring cable drum),  Protective earth cable 50 m (manual cable drum)
	Integrated safety system with FU/EP. Separation transformer	COMFORT: Mains cable 50 m (recoiling belt slip-ring cable drum), protective earth 50 m (recoiling belt cable drum)
	Monitoring of: Voltage difference to protective earth Rise time of potential to protective earth Loop of protective earth to aux. earth Loop of cable shield to aux. earth	PRO: Mains cable 50 m (motorised slip-ring cable drum), Protective earth 50 m (motorised cable drum)
Teleflex connection		3-phase coax cable, 50 m (manual, recoiling band or motorised drum)
Safety cable drum		Safety cable drum 50 m (manual, recoiling band or motorised) with emergency-OFF, key interlock and status indicating lights
Operating conditions		
Operating temperature	-20 °C +55 °C	
Storage temperature	-25 °C +60 °C	
Weight		
	depending on options 700 1200 kg	
Mains supply		
Mains voltage	230 V, 50 Hz (16 A connection)	120 V, 60 Hz
ivianis voltage	250 V, 50 Hz (10 A CONNECTION)	Generator operation from vehicle engine
		Battery operation up to 4 hours
Power consumption	Separation transformer max. 2 kVA	Separation up to 4 hours  Separation transformer 5 kVA with CEE-connector for extended requirements such as ARM Burning, air condition



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## Variant 3 - 80 Cable fault location system, 3-phased

Method	Base Module	Options	
Operation			
	3-phased, manual switching system NSF 8, air insulated HV switch with integrated FU/EP safety system, 5.7" color TFT, connectors for external insulation tester (1000 V max.)		
Insulation testing			
500 and 1000 V		Integrated automatic or manual insulation, resistance and capacitance measurement, trend measurement (DAR and PI) of resistance up to 10 min., automatic memory, comparison of measurements ph–ph and ph–N, 6 measurements for resistance ph-ph, 3 measurements for cable capacitance Riso: $1 \Omega \dots 2 G\Omega$ Riso: $1 k\Omega \dots 2 G\Omega$	
Capacity		C: 0,0 μF 19,9 μF	
< 24 V		R: 0,1 Ω 1 kΩ	
HV testing			
DC	0 80 kV, IN 14 mA, I <sub>max</sub> 50 mA	0 50 kV, I <sub>N</sub> 14 mA, I <sub>max</sub> 50 mA 0 100 kV, I <sub>N</sub> 15 mA, I <sub>max</sub> 50 mA	
AC		0 58 kV AC, IN 14 mA, I <sub>max</sub> 50 mA Not possible via the HV cable drum!	
VLF Testing		VLF 54 kVrms 0,1 Hz Cosine Rectangular Voltage, max. cable capacity 5 μF@54 kV, 8 μF@36 kV 21 μF@18 kV	
		VLF sin 54 kV, max. cable capacity 5 µF@38 kV <sub>ms</sub> / 0,01 Hz; 1 µF@38 kV <sub>ms</sub> / 0,1 Hz	
Diagnosis		OWTS Partial discharge measuring system with oscillating voltage close to power frequency	
		Tan δ Measurement in connection with VLF sin	
Sheath testing	0 5, 10 kV, 800 mA, (with BPS 5000)	010 kV, 750 mA (option MFM 10)	
Prelocation			
Impulse Reflection Measurement modes	Direct, Difference, Comparison, Average, Intermittent Fault location IFL, Simultaneous display of six phases or memory contents in selectable colours. Automatic adjustment of gain, range and pulse width. ARMslide technology with 15 Measurements in one ARM surge, Pro Range function with distance depending attenuation correction		
Sample Rate	max. 400 MHz		
Pulse width	20 ns 10 μs		
Range	20 m 1280 km bei v/2 = 80 m/μs		
Pulse amplitude	20 11 111 1200 Kill Del 1/2 - 00 11/ps		
	30 160 V		
Propagation Velocity V/2:	· ·		
Propagation Velocity V/2: Dynamic range	30 160 V		
, ,	30 160 V 10149,9 m/µs, ft/µs or NVP		
Dynamic range	30 160 V 10149,9 m/µs, ft/µs or NVP > 80 dB		
Dynamic range Output impedance	30 160 V 10149,9 m/μs, ft/μs or NVP > 80 dB 50 Ω Better than 0.1 % of range 0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs		
Dynamic range Output impedance Accuracy	30 160 V 10149,9 m/μs, ft/μs or NVP > 80 dB 50 Ω Better than 0.1 % of range 0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs LAN, USB, DVI, LON, CAN		
Dynamic range Output impedance Accuracy Resolution Interface Display	30 160 V 10149,9 m/μs, ft/μs or NVP > 80 dB 50 Ω Better than 0.1 % of range 0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs LAN, USB, DVI, LON, CAN 15" Colour SXGA, CCFL-Backlight, 300cd/m²		
Dynamic range Output impedance Accuracy Resolution Interface	30 160 V 10149,9 m/μs, ft/μs or NVP > 80 dB 50 Ω Better than 0.1 % of range 0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs LAN, USB, DVI, LON, CAN 15" Colour SXGA, CCFL-Backlight, 300cd/m² 2 GB each for Program, Data and recovery		
Dynamic range Output impedance Accuracy Resolution Interface Display	30 160 V 10149,9 m/μs, ft/μs or NVP > 80 dB 50 Ω Better than 0.1 % of range 0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs LAN, USB, DVI, LON, CAN 15" Colour SXGA, CCFL-Backlight, 300cd/m²		
Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain Data and reporting	30 160 V 10149,9 m/μs, ft/μs or NVP > 80 dB 50 Ω Better than 0.1 % of range 0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs LAN, USB, DVI, LON, CAN 15" Colour SXGA, CCFL-Backlight, 300cd/m² 2 GB each for Program, Data and recovery	ı, also as PDF export or to Winkis software	
Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain	30 160 V 10149,9 m/μs, ft/μs or NVP > 80 dB 50 Ω Better than 0.1 % of range 0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs LAN, USB, DVI, LON, CAN 15" Colour SXGA, CCFL-Backlight, 300cd/m² 2 GB each for Program, Data and recovery -37 +37 db + 0 22dB for ProRange	ı, also as PDF export or to Winkis software	
Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain Data and reporting	30 160 V 10149,9 m/μs, ft/μs or NVP > 80 dB 50 Ω Better than 0.1 % of range 0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs LAN, USB, DVI, LON, CAN 15" Colour SXGA, CCFL-Backlight, 300cd/m² 2 GB each for Program, Data and recovery -37 +37 db + 0 22dB for ProRange	g, also as PDF export or to Winkis software  0 8 / 16 / 32 kV active with LSG 3-E, 2 kV, 640 J  0 2 / 4 kV additional surge stages	
Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain Data and reporting HV prelocation	30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs  LAN, USB, DVI, LON, CAN  15" Colour SXGA, CCFL-Backlight, 300cd/m²  2 GB each for Program, Data and recovery  -37 +37 db + 0 22dB for ProRange  Automatic storage of all measurements, report printing	0 8 / 16 / 32 kV active with LSG 3-E, 2 kV, 640 J	
Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain Data and reporting HV prelocation ARM	30 160 V 10149,9 m/μs, ft/μs or NVP > 80 dB 50 Ω Better than 0.1 % of range 0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs LAN, USB, DVI, LON, CAN 15" Colour SXGA, CCFL-Backlight, 300cd/m² 2 GB each for Program, Data and recovery -37 +37 db + 0 22dB for ProRange Automatic storage of all measurements, report printing	0 8 / 16 / 32 kV active with LSG 3-E, 2 kV, 640 J	
Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain Data and reporting HV prelocation ARM Decay	30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs  LAN, USB, DVI, LON, CAN  15" Colour SXGA, CCFL-Backlight, 300cd/m²  2 GB each for Program, Data and recovery  -37 +37 db + 0 22dB for ProRange  Automatic storage of all measurements, report printing  0 8 / 16 / 32 kV passive with LSG 300  0 U <sub>max</sub> (max. DC test voltage)	0 8 / 16 / 32 kV active with LSG 3-E, 2 kV, 640 J 0 2 / 4 kV additional surge stages	
Dynamic range Output impedance Accuracy Resolution Interface Display Data Storage Gain Data and reporting HV prelocation ARM Decay Current decoupling	30 160 V  10149,9 m/μs, ft/μs or NVP  > 80 dB  50 Ω  Better than 0.1 % of range  0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs  LAN, USB, DVI, LON, CAN  15" Colour SXGA, CCFL-Backlight, 300cd/m²  2 GB each for Program, Data and recovery  -37 +37 db + 0 22dB for ProRange  Automatic storage of all measurements, report printing  0 8 / 16 / 32 kV passive with LSG 300  0 U <sub>max</sub> (max. DC test voltage)	0 8 / 16 / 32 kV active with LSG 3-E, 2 kV, 640 J 0 2 / 4 kV additional surge stages 0 8 / 16 / 32 kV, 3-phased	



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Method	Base Module	Options
Burning		- p
DC		0 1,2 kV, 6 A; 4 kV, 1,5 A; 8 kV, 0,8 A; 15 kV, 0,5 A
AC		0 60 V, 110 A; 0 220 V, 30 A
Resonance burning		0 15 kV, 20 A with T 22/13
Pinpointing		
Acoustically by surge module	0 8 / 16 kV / 32 kV, 1750 J 2,5 10 s	0 2 / 4 kV, 1150 J
Surge rate		0 8 / 16 / 32 kV, 3500 J
Surge wave receiver		digiPHONE+
Sheath faults		0 10 kV, max. 750 mA (MFM 10)
with DC STep voltage		0 5 kV, 0,8 A 0 10 kV, 0,5 A (with BPS HV)
Step voltage receiver		ESG NT
Audio Frequency		
Output power		200 W
Frequencies		491 Hz, 982 Hz, 8.44 kHz also with SignalSelect, Supermaximum
Impedance		$0.5 \Omega \dots 1 k\Omega$ automatic impedance matching
Sheath fault pinpointing		Step voltage probe, direct or capacitive
with AC audio frequency		Step voltage probe, uncer or capacitive
HV connections		
3 x 1 Phase		ECONOMY: 50 m (manual cable drum)
		COMFORT: 50 m (motorised cable drum)
		PRO: 50 m (motorised slip-ring cable drum)
1 x 3 Phase	Multi: 50 m (motorised cable drum 3phase)	
LV connections, power s	supply	
	Earth potential monitoring, 10 m (manual cable drum)	<b>ECONOMY</b> :  Mains cable 50 m (manual slip-ring cable drum),  Protective earth cable 50 m (manual cable drum)
	Integrated safety system with FU/EP. Separation transformer	COMFORT: Mains cable 50 m (recoiling belt slip-ring cable drum), protective earth 50 m (recoiling belt cable drum)
	Monitoring of: Voltage difference to protective earth Rise time of potential to protective earth Loop of protective earth to aux. earth Loop of cable shield to aux. earth	PRO: Mains cable 50 m (motorised slip-ring cable drum), Protective earth 50 m (motorised cable drum)
Teleflex connection		3-phase coax cable, 50 m (manual, recoiling band or motorised drum)
Safety cable drum		Safety cable drum 50 m (manual, recoiling band or motorised) with emergency-OFF, key interlock and status indicating lights
Operating conditions		
Operating temperature	-20 °C +55 °C	
Storage temperature	-25 °C +60 °C	
Weight		
	depending on options 800 1300 kg	
Mains supply		
Mains voltage	230 V, 50 Hz (16 A connection)	120 V, 60 Hz
		Generator operation from vehicle engine
		Battery operation up to 4 hours
Power consumption	Separation transformer max. 2 kVA	Separation transformer 5 kVA with CEE-connector for extended requirements such as ARM Burning, air condition etc.



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