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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 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 Ω 2 G Ω Riso: 1 k Ω 2 G Ω	
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 _{max} 50 mA	0 50 kV, I _N 14 mA, I _{max} 50 mA	
		0 100 kV, I _N 15 mA, I _{max} 50 mA	
AC		0 58 kV AC, IN 14 mA, I _{max} 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 _{ms} / 0,01 Hz; 1 μF@38 kV _{ms} / 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)	
	0 5, 10 kV, 600 HIV (, (WILLI DI 5 5000)	0 10 kV, 750 mA (option with 10)	
Prelocation	5 3, 10 kV, 500 HbV, (Wild DI 3 5000)	U 10 kV, 750 HIA (Option Will Will 10)	
	Direct, Difference, Comparison, Average, Intermittent memory contents in selectable colours. Automatic adju	Fault location IFL, Simultaneous display of six phases or ustment of gain, range and pulse width. ARMslide technology function with distance depending attenuation correction	
Prelocation Impulse Reflection	Direct, Difference, Comparison, Average, Intermittent memory contents in selectable colours. Automatic adju	Fault location IFL, Simultaneous display of six phases or ustraction is gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes	Direct, Difference, Comparison, Average, Intermittent memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range f	Fault location IFL, Simultaneous display of six phases or ustraction is gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes Sample Rate	Direct, Difference, Comparison, Average, Intermittent memory contents in selectable colours. Automatic adju with 15 Measurements in one ARM surge, Pro Range t max. 400 MHz	Fault location IFL, Simultaneous display of six phases or ustraction is gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes Sample Rate Pulse width	Direct, Difference, Comparison, Average, Intermittent memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range 1 max. 400 MHz	Fault location IFL, Simultaneous display of six phases or ustraction is gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes Sample Rate Pulse width Range	Direct, Difference, Comparison, Average, Intermittent memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range 1 max. 400 MHz 20 ns 10 μs 20 m 1280 km bei v/2 = 80 m/μs	Fault location IFL, Simultaneous display of six phases or ustraction is gain, range and pulse width. ARMslide technology	
Prelocation Impulse Reflection Measurement modes Sample Rate Pulse width Range Pulse amplitude	Direct, Difference, Comparison, Average, Intermittent memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range 1 max. 400 MHz 20 ns 10 μs 20 m 1280 km bei v/2 = 80 m/μs 30 160 V	Fault location IFL, Simultaneous display of six phases or ustreen to 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 memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range fmax. 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	Fault location IFL, Simultaneous display of six phases or ustreen to 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 memory contents in selectable colours. Automatic adjuwith 15 Measurements in one ARM surge, Pro Range f 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	Fault location IFL, Simultaneous display of six phases or ustreen to 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 memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range fmax. 400 MHz 20 ns 10 μ s 20 m 1280 km bei ν /2 = 80 m/ μ s 30 160 V 10149,9 m/ μ s, ft/ μ s or NVP > 80 dB	Fault location IFL, Simultaneous display of six phases or ustreen to 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 memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range fmax. 400 MHz 20 ns 10 μ s 20 m 1280 km bei ν /2 = 80 m/ μ s 30 160 V 10149,9 m/ μ s, ft/ μ s or NVP > 80 dB 50 Ω Better than 0.1 % of range	Fault location IFL, Simultaneous display of six phases or ustreen to 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 memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range 1 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	Fault location IFL, Simultaneous display of six phases or ustreen to 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 memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range 1 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	Fault location IFL, Simultaneous display of six phases or ustraction is 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 memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range 1 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	Fault location IFL, Simultaneous display of six phases or ustreen to 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 memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range 1 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	Fault location IFL, Simultaneous display of six phases or ustment of gain, range and pulse width. ARMslide technology function 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 memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range fmax. 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	Fault location IFL, Simultaneous display of six phases or ustment of gain, range and pulse width. ARMslide technology function 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 memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range fmax. 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	Fault location IFL, Simultaneous display of six phases or ustment of gain, range and pulse width. ARMslide technology function with distance depending attenuation correction g, 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 in memory contents in selectable colours. Automatic adjuwith 15 Measurements in one ARM surge, Pro Range of 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	Fault location IFL, Simultaneous display of six phases or ustment of gain, range and pulse width. ARMslide technology function 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	Direct, Difference, Comparison, Average, Intermittent memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range fmax. 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 _{max} (max. DC test voltage)	Fault location IFL, Simultaneous display of six phases or ustrment of gain, range and pulse width. ARMslide technology function with distance depending attenuation correction 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	
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 in memory contents in selectable colours. Automatic adjuwith 15 Measurements in one ARM surge, Pro Range of 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	Fault location IFL, Simultaneous display of six phases or ustrment of gain, range and pulse width. ARMslide technology function with distance depending attenuation correction 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 0 8 / 16 / 32 kV, 3-phased	
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 memory contents in selectable colours. Automatic adjuvith 15 Measurements in one ARM surge, Pro Range fmax. 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 _{max} (max. DC test voltage)	Fault location IFL, Simultaneous display of six phases or ustrment of gain, range and pulse width. ARMslide technology function with distance depending attenuation correction 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	



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	0 8 / 16 kV / 32 kV, 1750 J 2,5 10 s	0 1,2 kV, 6 A; 4 kV, 1,5 A; 8 kV, 0,8 A; 15 kV, 0,5 A 0 60 V, 110 A; 0 220 V, 30 A 0 15 kV, 20 A with T 22/13 0 2 / 4 kV, 1150 J 0 8 / 16 / 32 kV, 3500 J digiPHONE+
AC Resonance burning Pinpointing Acoustically by surge module Surge rate Surge wave receiver Sheath faults		0 60 V, 110 A; 0 220 V, 30 A 0 15 kV, 20 A with T 22/13 0 2 / 4 kV, 1150 J 0 8 / 16 / 32 kV, 3500 J digiPHONE+
Resonance burning Pinpointing Acoustically by surge module Surge rate Surge wave receiver Sheath faults		0 15 kV, 20 A with T 22/13 0 2 / 4 kV, 1150 J 0 8 / 16 / 32 kV, 3500 J digiPHONE+
Pinpointing Acoustically by surge module Surge rate Surge wave receiver Sheath faults		0 2 / 4 kV, 1150 J 0 8 / 16 / 32 kV, 3500 J digiPHONE+
Acoustically by surge module 2 Surge rate Surge wave receiver Sheath faults		0 8 / 16 / 32 kV, 3500 J digiPHONE+
module 2 Surge rate Surge wave receiver Sheath faults		0 8 / 16 / 32 kV, 3500 J digiPHONE+
Surge wave receiver Sheath faults		digiPHONE+
Sheath faults		Samuel Control of the
		0 10 kV, max. 750 mA (MFM 10) 0 5 kV, 0,8 A 0 10 kV, 0,5 A (with BPS HV)
Step voltage receiver		ESG NT
		256111
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 with AC audio frequency		Step voltage probe, direct or capacitive
HV connections		
1-phased E	ECONOMY: 50 m (manual cable drum)	COMFORT: 50 m (motorised cable drum)
		PRO: 50 m (motorised slip-ring cable drum)
LV connections, power su	ipply	
(ı lr	Earth potential monitoring, 10 m (manual cable drum) Integrated safety system with FU/EP. Separation transformer	ECONOMY: Mains cable 50 m (manual slip-ring cable drum), Protective earth cable 50 m (manual cable drum) COMFORT: Mains cable 50 m (recoiling belt slip-ring cable drum), protective earth 50 m (recoiling belt cable drum)
V R L	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		
d	depending on options 700 1200 kg	
Mains supply		
	230 V, 50 Hz (16 A connection)	120 V, 60 Hz
v-vocanadesTh. statutes to the V ati	, 55 (/	Generator operation from vehicle engine
		Battery operation up to 4 hours
Power consumption S	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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Variant 3 - 80 Cable fault location system, 3-phased

Method	Base Module	Options
Operation		
	3-phased, manual switching system NSF 8, air insulat TFT, connectors for external insulation tester (1000 V	ed HV switch with integrated FU/EP safety system, 5.7" color 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 Ω 2 $G\Omega$ Riso: 1 $k\Omega$ 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 _{max} 50 mA	0 50 kV, I _N 14 mA, I _{max} 50 mA 0 100 kV, I _N 15 mA, I _{max} 50 mA
AC		0 58 kV AC, IN 14 mA, I _{max} 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 $5 \mu F@38 kV_{ms} / 0,01 Hz; 1 \mu F@38 kV_{ms} / 0,1 Hz$
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	memory contents in selectable colours. Automatic ad	t Fault location IFL, Simultaneous display of six phases or justment of gain, range and pulse width. ARMslide technology 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	30 160 V	
Propagation Velocity V/2:	10149,9 m/μs, ft/μs or NVP	
Dynamic range	> 80 dB	
Output impedance	50 Ω	
Accuracy	Better than 0.1 % of range	
Resolution	0,1 m @ 80m/μs, 1,0 cm @ V/2 < 40 m/μs	
Interface	LAN, USB, DVI, LON, CAN	
Display	15" Colour SXGA, CCFL-Backlight, 300cd/m²	
Data Storage	2 GB each for Program, Data and recovery	
Gain	-37 +37 db + 0 22dB for ProRange	
Data and reporting	Automatic storage of all measurements, report printi	ng, also as PDF export or to Winkis software
HV prelocation		
ARM	0 8 / 16 / 32 kV passive with LSG 300	0 8 / 16 / 32 kV active with LSG 3-E, 2 kV, 640 J 0 2 / 4 kV additional surge stages
Decay	0 U _{max} (max. DC test voltage)	
Current decoupling	0 8 / 16 / 32 kV, 1-phased	0 8 / 16 / 32 kV, 3-phased
	0 1	
ARM burning		0 15 kV, 20/25 A and M 212 ETF
Sheath fault location		0 15 kV, 20/25 A and M 212 ETF 0 ±10 kV, max. 750 mA (see MFM 10)



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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
A CONTRACTOR OF THE CONTRACTOR		7777
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 with AC audio frequency		Step voltage probe, direct 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	supply	'
	Earth potential monitoring, 10 m (manual cable drum)	ECONOMY: 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	aspending on options doo 1500 kg	
Mains supply	220 \ 50 Hz (46 A conversion)	120 // CO II-
Mains voltage	230 V, 50 Hz (16 A connection)	120 V, 60 Hz
		Generator operation from vehicle engine
	2 9 0 0 0 0 0	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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