

1-phased test system with automatic operating mode selection and optional 3-phased LV measurement

Fault location module with 2-, 3- or 4-step surge generator (thumper)

Resistance measurement

Ranges 1 kΩ, 5 MΩ, 100 MΩ

Voltage 1000 ... 5000 V in 100 V steps

DC Test with breakdown recognitionVoltage 0 ... 40 kV, I_{max} 750 mA

Leakage current 0 ... 1; 1 ... 10; 10 ... 100 mA with automatic measuring area setting

Cable sheath testingVoltage 0 ... 5 kV; 0 ... 10 kV; I_{max} 750 mA**Cable fault location – Prelocation methods**

Pulse reflectometry, ARM® Multishot, Decay method, ICE current pulse method, IFL Intermittent fault localisation

Pulse reflectometry (Teleflex)

Operating modes Symmetric/asymmetric reflection measurement, differential and comparative measurement, IFL (for intermittent faults)

Automatic functions Determination of cable length and fault distance, amplification, measurement range

Amplification Default: -37 ... +37 dB; ProRange: max. 22 dB

Measurement range 20 m ... 1.280 km (for VOP = 80 m/μs); resolution 0.1 m

Runtime factor VOP 10 ... 149.9 m/μs

Precision 0.1 % of measurement range

Sampling rate 400 MHz

Output Impedance 10 ... 2.000 Ω

Pulse width 20 ns ... 10 μs

Pulse voltage 30 ... 160 V

HV prelocation methods**ARM® Multishot (15 fault patterns per surge pulse)**

Surge voltage 0 ... 32 kV

Decay method

Voltage 0 ... 40 kV

ICE - Current pulse method

Surge voltage 0 ... 32 kV

Fault conversion

0 ... 8 kV, 750 mA; 0 ... 20 kV, 0.1 A

Cable fault location – Pinpointing methods**Acoustic pinpointing**

Voltage levels 0 ... 4; 0 ... 8; 0 ... 16; 0 ... 32 kV

Surge energy 1.000 J or 2.000 J in every voltage range

Surge sequence 6 ... 20 surges/min; individual surge; automatic; controllable

Step voltage methodOutput voltage; current 0 ... 5 kV; 0 ... 10 kV; I_{max} 750 mA

Pulse duty factor 1:3; 1:4; 1:6 (low hazard potential due to clocked DC voltage)

Weight

starting from 140 kg

Connection of the test system

HV connection	Economy 25:	25 m, 1-phased cable; manual cable drum
	Economy 50:	50 m, 1-phased cable; manual cable drum
	Pro:	50 m, 1-phased cable; motor-driven cable drum
LV connection	Economy:	50 m mains/protective earth cable, 10 m auxiliary earth; manual cable drums
	Comfort:	50 m mains/protective earth cable, 10 m auxiliary earth; belt pull cable drums
Reflectometer connection	Economy:	50 m, 3-phase coax-cable; manual cable drum
	Comfort:	50 m, 3-phase coax-cable; belt pull cable drum
External emergency stop unit	Economy:	15 m connection cable
	Comfort:	50 m connection cable; belt pull cable drum

Test & Diagnostics module

VLF-voltage testing according to DIN VDE 0276

VLF CR 40 test system

Voltage	0 ... 40 kV _{eff}
Max. load	4.8 µF for 40 kV _{eff} @ 0.1 Hz

VLF CR 60 test system

Voltage	0 ... 60 kV _{eff}
Max. load	2 µF for 60 kV _{eff} @ 0.1 Hz

TDM 4540 test set

CR / 50 Hz Slope

Voltage	0 ... 40 kV _{eff}
Max. load	5.5 µF for 36 kV _{eff} @ 0.1 Hz

Sine

Voltage	0 ... 45 kV
Max. load	0.6 µF for 32 kV _{eff} @ 0.1 Hz (10 µF for lower voltage/frequency)
DAC (option)	For non-destructive PD diagnostics
Voltage	0 ... 40 kV _{peak}

PD diagnostics with 50 Hz Slope technology (option)

tanDelta diagnostics and monitored withstand test (option)

Weight

starting from 100 kg

Operating system and display for Fault Location, Testing & Diagnostics

Operating system	Linux
Memory	8 GB RAM, 8 GB fast SSD for system recovery, at least 320 GB HDD
Display	Touch display 21.5", 1.920 x 1.080 (16:9), Full HD
Database	Automatic backup of all measurements
Data export format	PDF, MeggerBook Cable database
Data synchronisation	USB 3.0

Add-on features (optional)

GPS Receiver	Location of the test system in the database software
Remote control	Important system functions can be controlled via mobile devices (3G)
Additional display	

Safety and protection equipment

Earth monitoring	Operational earth and protective earth to station earth
Step voltage	Auxiliary earth to vehicle chassis
Monitoring	Key switch, rear door switch, emergency stop switch (int./ext.) EN 50919
Supply voltage	Overvolt protection, undervoltage protection, residual current circuit breaker
Isolating transformer	3.6 kVA

System supply an operating conditions

Input Voltage	230 V, 50 Hz (110 V, 60 Hz)
Power consumption	< 3 kVA
Operating temperature	- 10°C ... + 55°C
Storage temperature	- 25°C ... + 70°C

System supply and comfort (optional)

Travel power generator 5 kVA
Electric heating 2.000 W
Air conditioning on car roof

We reserve the right to make technical changes.

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