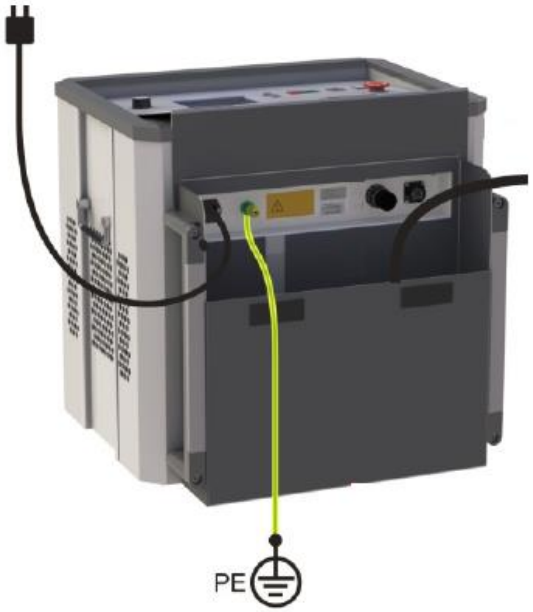
TDM 62-P

VLF Test System



- **High test capacity up to 5µF**
- **Integrated safety system**
- **Reporting via USB**
- **Expandable with tanDelta or PD attachment**

DESCRIPTION

The TDM 62-P is the ideal system for all users who want or have to perform a test with a genuine 0.1 Hz sine wave voltage. The VLF testing system can be integrated perfectly in a fault location system or used in combination with the optional tan delta test attachment or PD attachment as part of a diagnostic test.
The TDM 62-P always fulfil ls the highest demands regarding quality and stability of test voltages for 0.1 Hz sine wave voltages and when testing with rectangular wave and DC voltages. Moreover, the integrated “breakdown recognition”, which disconnects the test voltage and earth the test object if a load current is too high, ensures easy and safe operation.
Depending on how the system is integrated, the TDM 62-P can be operated intuitively through the built-in operator guide.
Logs can be conveniently created in .csv format using a USB stick, enabling further data processing. Data is also saved in Eastport format (software supplied) for clear and structured reports.
Used together with the optional ESG NT step voltage probe, sheath faults can be precisely pinpointed using the step voltage method.

Moreover, the TDM 62-P can be upgraded to become an accurate testing and diagnostic system with the optional tan delta test attachment or PD attachment.

TECHNICAL DATA*

The TDM 62-P test system is defined by the following technical parameters:

Parameter	Value
Output voltage, sine wave	1.4… 44 kVRMS / 2 … 62 kVPEAK
Output voltage, DC wave	2 … 62 kV
Output voltage, rectangular wave	±2 … ±62 kV
Sheath test and sheath fault pinpointing	0 … -20 kV
Source output current	40 mA
Leakage current measurement	(DC and rectangular voltage)
• **Display area**	0 to 20 mA
• **Resolution**	10 µA
Frequency	0.01 Hz to 0.1 Hz
Testable load capacitance	
• **Sine wave voltage**	1,0 µF at 62 kV / 0.1 Hz
• **Rectangular voltage**	1,0 µF at 62 kV / 0.1 Hz
• **DC voltage**	5 µF at 62 kV
• **Maximum load capacitance**	10 µF at reduced voltages and frequencies
Internal TanDelta (optional)	
• **Measuring range**	10^{-4} … 10^{0}
• **Precision (requires load capacitance to be >20 nF)**	1 x 10^{-4}
• **Resolution**	1 x 10^{-6}
Pulse rate in sheath pinpointing mode (in seconds)	0.5:1 / 1:2 / 1:3 / 1:4 / 1.5:0.5
Power supply	110 V to 230 V, 50/60 Hz
Power consumption	2000 VA
Display	Transflective sunlight readable 5.7" colour display with a resolution of 640 x 480 pixels
Memory	At least 1000 records of test data
Interfaces	USB 2.0, Ethernet, external safety device
Weight	59 kg
Dimensions (W x D x H)	544 x 416 x 520 mm
Operating temperature	-20 °C to 55 °C
Storage temperature	-20 °C to 70 °C
Relative humidity	93% at 30 °C (non-condensing)
Protection class (in accordance with IEC 61140 (DIN VDE 0140-1))	I
Ingress protection rating (in accordance with IEC 60529 (DIN VDE 0470-1))	IP21

FEATURES

■ Ideal as a component in the diagnostic test van

■ AC testing acc. to IEC, IEEE and CENELEC

■ Capable of testing 35 kV rated cables and diagnosing
45 kV rated cables acc. to IEEE

■ Sheath testing and sheath fault location acc. to IEC 60229

■ Programmable test sequences

■ Maximum user safety thanks to the integrated safety system

■ Breakdown detection and load recognition (R, C)

■ Quick and convenient logging and updating via USB port

ORDERING INFORMATION		
Optional accessories		
Accessory	**Description**	**Order no.**
Internal TanDelta measurement	Activation of optional internal TanDelta measurement	1009962
External safety device with HV controls	External box with signal lights, high voltage controls, EMERGENCY OFF switch and key switch	108300322
External safety device without HV controls	External box with signal lights, EMERGENCY OFF switch and key switch	2010001
MeggerBook Cable	Reporting software for Windows	85542
VLF CS-SF6-M12	Set of adapters for 3-phase cable testing; suitable for M12 elbow connectors	128311799
VLF CS-SF6-M16	Set of adapters for 3-phase cable testing; suitable for M16 elbow connectors	128311800
VLF CS-BB	Set of adapters for 3-phase cable testing; suitable for connection to busbar	128311801
External TanDelta cable diagnosis system	External TanDelta test attachment for very accurate TanDelta measurement (incl. notebook, software and accessories)	820020283
PD diagnosis module PDS 60	PD coupler for partial discharge diagnosis with sine wave, cosine rectangular and DAC voltage (incl. notebook, software, calibrator and accessories)	1010142
PD diagnosis module PDS 62-SIN	PD coupler for partial discharge diagnosis with sine wave voltage (incl. notebook, software, calibrator and accessories)	1009853
Diagnostic connection set	Accessory set for a partial-discharge free connection to the test object	890017909

* We reserve the right to make technical changes.

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