

P12a

Portable advanced cable fault locator for low and medium voltage networks up to 12kV

The P12a is an advanced HV cable fault locator for applications in LV and MV cable networks up to 12kV. The system allows high voltage (HV DC) testing and pinpointing (Surge) of cable faults. In addition, the integrated inductive Arc Reflection Technology (ARTi) module enables the HV pre-location of high resistant faults in combination with an external TDR such as the InterFlex 140. Operation and parameter setting is controlled electronically for ease of use. Moreover, featuring a powerful three range surge unit with 1000 Joule each level,

the P12a provides extended locating capability over a wide network voltage range in a still portable design. The multi-dimensional protection & safety system PROSAFE 3D ensures maximum safety for the instrument, the operator and DUT. The optional pinpointer Kamphone and Locator S are used for flash-over faults or cable sheath faults respectively. As an economic alternative, the version P12e is offered without integrated TDR and ARTi.



- + High 1000 Joule Multi-Range Output
- + Portable & Easy Deployable Design
- + Integrated ARTi Technology For Pre-Location With Extra TDR

APPLICATIONS & FEATURES

- Comprehensive fault locating in LV and MV networks up to 12kV;
- Optimal solution for LV and 6 to 11kV underground cable systems;
- HV-DC testing with flash-over detection and leakage current measurement;
- Fault pre-location (HV) ready with integrated inductive ARTi coupler and optional TDR;
- Mapping & pinpointing of faults by fast HV surges and optional sensor Kamphone or Locator S;
- Integrated PROSAFE 3D safety system including faulty ground conditions monitor (FU/EP);
- Optional PROSAFE 5D safety system that includes separation transformer and extra residual voltage monitor.

SPECIFICATIONS

Analysis & test of faults:	
DC HV mode	0 to 18kV
Isolation of faults:	
pre-location ready (HV)	integrated 12kV ARTi output for TDR connection
Optional fault conditioning	Surge Current Coupling 12kV 500mA (burn)
Optional	1,5A
Mapping of faults:	
max. Surge voltage levels	3/6/12kV
max. Surge energy	1000J (per level)
Optional	2000J (per level)
range Surge pulse cycles	1000J @ 3s to 10s; single shot
Sheath pinpointing (opt.)	0 to 12kV

GENERAL DATA

safety	PROSAFE 3D or 5D system
dimensions	430x516x875mm
IP rating	IP54
weight	80kg
mains supply	230V; 50 Hz
operating temperature	-10°C to +55°C

SCOPE OF SUPPLY

P12a
Set of connection cables (5m) incl. cable bag
User manual on CD

OPTIONS

InterFlex 140: TDR pre-locator
Kamphone: electro-acoustic pinpointer
Locator S: step-voltage probe
Trolley
P12e: Economic version without integrated ARTi