

## P5a

### Portable advanced cable fault locator for low voltage networks 5kV

The P5a is an advanced HV cable fault locator for applications in LV, lighting and control cable networks up to 5kV. 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.

The fast HV surge pulse cycles of 4 sec. with up to 1000 Joule energy provide for even the most demanding locating jobs. 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 P5e is offered without integrated TDR and ARTi.



- + Portable & Lightweight 1000J Output
- + Integrated ARTi Technology For Pre-Location With Extra TDR
- + Integrated Advanced Safety System PROSAFE 3D

#### APPLICATIONS & FEATURES

- Comprehensive fault locating in power, lighting, control and communication cables;
- HV-DC testing with flash-over detection;
- 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

<b>Analysis &amp; test of faults:</b>	
DC HV mode	0 to 5kV
<b>Isolation of faults:</b>	
pre-location ready (HV)	integrated 4kV ARTi output for TDR connection
fault conditioning	70mA (burn)
Optional	1A
<b>Mapping of faults:</b>	
Surge mode	0 to 4kV; 0 to 1000 Joule
Surge mode pulse range	4s to 10s; single shot
Sheath pinpointing (opt.)	0 to 5kV; 1:3, 1:6, 3:1, 6:1
<b>GENERAL DATA</b>	
safety	PROSAFE 3D or 5D system
dimensions	297x516x620mm
IP rating	IP54
weight	55kg
mains supply	230V; 50Hz
operating temperature	-10°C to +55°C

#### SCOPE OF SUPPLY

- P5a
- Set of connection cables (5m) incl. cable bag
- FU/EP sensor kit
- User manual on CD

#### OPTIONS

- InterFlex 140: TDR pre-locator
- Kamphone: electro-acoustic pinpointer
- Locator S: step-voltage probe
- Trolley
- P5e: Economic version without integrated ARTi