

## P24a

### Portable advanced cable fault locator for low and medium voltage networks up to 24kV

The P24a is an advanced HV cable fault locator for applications in LV and MV cable networks up to 24kV. The system allows proof testing (HV DC) and pinpointing (Surge) 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. A built-in discharge unit provides safety for the instrument, the operator and the device

under test. Moreover, featuring a powerful three range surge unit with 1000 Joule each level, the P24a provides extended locating capability over a wide network voltage range in a still portable design. For precise pinpointing the optionally available electro-acoustic sensor Kamphone is used for flash-over faults while the Locator S is used for pinpointing cable sheath faults based on the step-voltage method. As an economic alternative, the version P24e is offered without integrated ARTi.



- + High 1000J 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 24kV;
- Optimal solution for 6 to 11kV and 20 to 22kV underground cable systems;
- Proof testing (HV-DC) and fault conditioning;
- 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;
- Portable design with precise and clearly visible analogue metering.

#### SPECIFICATIONS

##### Analysis & test of faults:

max. DC test voltage 24kV (proof test)

##### Isolation of faults:

pre-location ready (HV) integrated 24kV ARTi output for TDR connection  
 fault conditioning 220mA (burn)

##### Mapping of faults:

max. Surge voltage levels 6/12/24kV  
 max. Surge energy 1000J (per level)  
 range Surge pulse cycles 1000J @ 3s to 10; single shot

#### GENERAL DATA

safety built-in discharge unit  
 dimensions 430 x 516 x 1000mm  
 IP rating IP54  
 weight 115kg  
 mains supply 230V, 50Hz

#### SCOPE OF SUPPLY

P24a  
 Trolley  
 Set of connection cables (5m) incl. cable bag  
 User manual on CD

#### OPTIONS

Kamphone: electro-acoustic pinpointer  
 InterFlex 140: TDR pre-locator  
 Locator S: step-voltage probe  
 External battery pack  
 P24e: Economic version without integrated ARTi module