

# Fault location system P-Line

The portable fault location systems of the InterCable FOS P-Line series have been developed for all cable measuring tasks in low and medium voltage networks. Individual variants of the InterCable FOS P-Line series have been selected in cooperation with the users and their requirements related to practice. The proven prelocation method based on ART (Arc Reflection Technique) surging has been integrated for the prelocation of high impedance cable faults.



- *Small, light, reliable and comfortable*
- *Optimally adapted equipment and functionality*
- *Ideal entry-level systems*

## FEATURES

- system composition of proven individual devices that are optimally coordinated with each other
- integrated motor controlled switch for the selection of the operating modes and surge voltage levels
- continuously adjustable surge rate and single shot mode
- automatic discharge of the cable under test and the system
- zero position forced for switching on high voltage according to VDE standard
- vehicle-independent and easily transportable in small vehicles

## SPECIFICATIONS: FOS P-Line

### Operation modes

- DC-test
  - output voltage \_\_\_\_\_ depending on system version
  - P-4, P-5, P-12, P-24, P-32i — 4, 5, 12, 24, 32 kV
- prelocation
  - InterFlex measuring ranges— 0–63 km
  - velocity \_\_\_\_\_ V/2=40–150 m/μs
  - impulse width \_\_\_\_\_ 50 ns up to 10 μs
  - ART surge \_\_\_\_\_ depending on system version
  - P-4, P-5 — 0–4 kV
  - P-12, P-24 — 0–3/6/12, 0–6/12/24 kV
  - P-32i — 0–8/16/32 kV
  - surge pulse \_\_\_\_\_ single shot
- pinpointing
  - surge voltage \_\_\_\_\_ depending on system version
  - P-4, P-5 — 0–4 kV
  - P-12, P-24 — 0–3/6/12, 0–6/12/24 kV
  - P-32i — 0–8/16/32 kV
  - surge power \_\_\_\_\_ depending on system version
  - P-4, P-5 — 520, 1000 J
  - P-12, P-24 — 1000 J
  - P-32i — 1000/2000 J
  - surge pulse \_\_\_\_\_ 3.5 s ≤ 10 s or single shot

### Power supply

- mains voltage \_\_\_\_\_ 230 V, 50/60 Hz
- power consumption \_\_\_\_\_ depending on system version
- P-4, P-5 — 600, 700 VA
- P-12, P-24, P-32i — 2000 VA
- weight
  - P-4, P-5, P-12, P-24, P-32i — approx. 51, 65, 100, 115, 175 kg

## SCOPE OF SUPPLY

- InterFlex 130, surge generator according system version
- set of connecting cables with clamps
- bag, user manual

### Optional accessories

- acoustic pinpointing system Kamphone
- cable sheath test set InterSheath
- cable selection set CableSelect
- locating technique Locator Set 50



ISO 9001:2000



## InterFlex 130

The time domain reflectometer InterFlex 130 built in a rugged plastic bag belongs to the basic equipment of the fault location system InterCable FOS P-Line. By means of a clearly arranged coloured 10.4" VGA screen with a structural design, the InterFlex 130 displays the digitally recorded measured values in a clearly legible format, and automates a significant part of the measurement work. The settings and measurement results are permanently displayed.



## PS4

The surge generator PS4 is the main component of the **system version P-4** from the cable fault location system InterCable FOS P-Line. With the surge energy of 520 J as well as the integrated ART surge mode (Arc Reflection Technique) the unit is well equipped for a fast prelocation with following pinpointing of cable faults in low voltage networks.

- PS4 surging 0...4 kV / 520 J / DC-test up to 4 kV



## PS4-A1001

The surge generator PS4-A1001 is the main component of the **system version P-5 1000** from the cable fault location system InterCable FOS P-Line. The surge energy of this surge generator is increased to 1000 J for better pinpointing properties. Additional safety circuits are built in. In course of this development the earth resistance and the voltage-time integral are monitored. Also available with **integrated reflectometer P-5i**.

- PS4-A1001 surging 0...4 kV / 1000 J / DC-test up to 5 kV



## PS12 and PS24

The surge generators PS12 and PS24 are important parts of the highest powerful **system versions P-12 and P-24** of the cable fault location system InterCable FOS P-Line. The key benefits are high surge energy of 1000 J and selectable surge voltage levels 3/6/12 kV in system version P12 and 6/12/24 kV in system version P-24. The maximum surge energy of 1000 J is available in all surge voltage levels. The ART method (Arc Reflection Technique) is integrated for the pre location of high impedance cable faults.

- PS12 surging 0...3/6/12 kV / 1000 J / DC-test up to 12 kV
- PS24 surging 0...6/12/24 kV / 1000 J / DC-test up to 24 kV



## PS32-A1000

The surge generator PS32-A1000 is the main component of the **system version P-32i** from the cable fault location system InterCable FOS P-Line. The surge energy of this surge generator is available with 1000 J or 2000J for better pinpointing. Available with **integrated reflectometer**.

- PS32-A1000 surging 0...32 kV / 1000 or 2000 J / DC-test up to 32 kV