



# PCA301

## Pre-Location TDR

### MAIN FEATURES

- **Ease of use**
- **Lightweight**
- **Robust Design**
- **Long battery life**
- **TDR, ICE, ARC, ARC Multi, Decay**
- **Touch Screen**
- **Single Knob**



### DESCRIPTION

The Adret PCA301 is used to determine the distance to a fault or discontinuity in symmetric or asymmetric cables using TDR Technology. Measuring the length of a cable (including those wound on a drum) or distance to high impedance faults or short circuit faults are possible. Storing and processing the results of measurements both internally or using the supplied PC software. As part of a suitable test system, determining the distance to a fault or discontinuity in cables with lengths of up to 160 km for all possible fault types without the need of preliminary cable fault burning or conditioning is achieved without difficulty. The unit features all the known cable fault pre-location methods and can be seamlessly integrated to any standard surge generator system.



## SPECIFICATIONS

### Distance measurement range

m @  $v/2 = 80$  m/s 20-160000

### Sampling rate

400MHz Max

### Gain

dB -37 + 37

### Output impedance

8 - 500  $\Omega$

### Propagation velocity

( $v/2$ ), m/us 10.0 - 150.0

### Pulse width

10 - 100 000ns

### Automatic trace analysis

Cable end and fault position

### Time domain accuracy

% of FS  $\pm 0.1$

### Pulse amplitude

45V

### Operation modes

TDR; ARC; ARC Multi; ICE; Decay 32kV  
Arc Multi, 16 Shots

### Control

Touchscreen and Control Knob

### Voltage Input Proof

400V

### Connectivity

RS-485, USB

Southern Africa Fault Location (Pty) Ltd

5 Union Street

Roxton

Alberton North

Gauteng

1449

South Africa

Tel: +27119076473

Email: sales@adret.co.za

### Internal data storage

4 Gb (not less than 1000reflectograms with data)

### Display

10.4", 1024x768 TFT touch-sensitive

### Internal battery

12 V (8 hours of operating when fully charged)

### External power adaptor

Input 230V 50 Hz

### Power consumption

36 W

### Dimensions

366 × 271 × 178 mm

### Enclosure

IP65 When Closed

### Net weight (with internal battery)

8.0 kg

### Warranty Period 1 year



Management System  
ISO 9001:2015



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