

# **IMP57**

Rel 1.01 of 31/03/2005

## Accessory for Loop/Line Impedance with high resolution

Page 1 of 2

# 1. ELECTRICAL SPECIFICATIONS

Accuracy is given as  $\pm$  (% of reading + no. of least significant digits) at 23 °C  $\pm$  5 °C, with relative humidity less than 80% R.H.

Z <sub>LINE</sub> Z <sub>LOOP</sub> MEASUREMENT			
Range	Resolution	Accuracy	
$0.0 \div 199.9 \text{m}\Omega$	$0.1$ m $\Omega$	$\pm (5.0\%$ rdg+1m $\Omega)$	
200 ÷ 1999mΩ	1m $\Omega$		

RLINE RLOOP, XLINE XLOOP MEASUREMENT		
Range	Resolution	Accuracy
$0.0 \div 199.9 \text{m}\Omega$	$0.1$ m $\Omega$	$\pm (10\% \text{rdg} + 2\text{m}\Omega)$
$200 \div 1999$ mΩ	1mΩ	

PROSPECTIVE SHORT CIRCUIT CURRENT		
Range	Resolution	Accuracy
0 ÷ 1999A	1A	
2.0 ÷ 9.9kA	0.1kA	related to Z accuracy
10 ÷ 1999kA	1kA	

VOLTAGE		
Range (50Hz ± 5%)	Resolution	Accuracy
190 ÷ 460V	1V	$\pm (1.0\%$ lettura+2cifre)

FREQUENCY		
Range (50Hz ± 5%)	Resolution	Accuracy
47.5 ÷ 52.5Hz	0.1Hz	±0.2Hz

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Page 2 of 2

# 2. GENERAL SPECIFICATIONS

#### Measurement mode:

• 4 wire high resolution Line impedance measurement.

#### **Function:**

- Phase to Phase, Phase to Neutral, Phase to Protection Conductor Impedance Measurement.
- Phase to Phase, Phase to Neutral, Phase to Protection Conductor Prospective short circuit current Calculation.

#### **Max Test Current:**

202A

#### Conformity:

The instrument is according to: EN60909-0, VDE 0413, EN61557-3

## Safety standards

The instrument complies with: EN 61010, EN61557
Insulation: Class 2, double insulation

Pollution level: 2Maximum height: 2000m

Overvoltage category: CAT III 240V (to Earth)

CAT III 415V (between P1, C1, P2, C2 inputs)

#### Power supply:

- 220 ÷ 415V nominal (from P1 and P2 inputs)
- Frequency: 50Hz±5%

### **Dimension:**

• 340mm (W) x 300mm (L) mm x 150mm (H)

#### Weight:

approx. 4100g (without accessories).

#### Operating temperature:

• 0°C to 40 °C, <80 % R.H.

#### Storage temperature:

• -10°C to 60°C, <80 % R.H.

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