

A 3 phase AC current probe utilising the Rogowski principle. It is designed specifically for use with the PHS50 and PHS51 Power Harmonic Analysers and can be used to measure currents up to 3000 Amp. The flexible and lightweight measuring heads allows quick and easy installation in hard to reach areas.

Electrical Characteristics

Current Ranges

Output Sensitivity (AC coupled)

Load Impedance

Accuracy at +25°C

Linearity 10% to 100% of range

Noise

Frequency Range

Phase Error

Position Sensitivity

with cable > 25mm from the coupling

External field

with cable > 200mm from the head

Power Supply

Battery Life

Temperature Coefficient

Working Voltage (Head)

Working Voltage (Output to Earth)

300Amp and 3000Amp AC_{RMS}

3.33 mV or 0.33 mV per Amp

100 kOhm minimum

± 1% of range (45 – 65 Hz)

± 0.2% of reading

2 mV AC_{RMS}

10 Hz to 50 kHz (- 3 dB)

< ± 1° (45 – 65Hz) ± 10° (at 20 kHz)

± 2% of range

± 1% of range

2 x AA MN 1500 LR6 alkaline

1000 Hours. Low battery indicator

± 0.08% of reading per °C

600 V AC_{RMS} or DC

30 V AC_{RMS} or DC

General Characteristics

Head Cable length 610mm (24")

Head Cable Diameter 14.3 mm

Head Bend Radius 38.1 mm

Cable length 2 meters

Head to electronics

Output Connection 3 x 0.5 m cable.
D01 connector fitted

Temperature Range -20 to +90 °C
Head Storage -40 to +105 °C

Temperature Range -20 to +85 °C
Electronics Storage -20 to +85 °C

Humidity 15% to 85%
non condensing

Weight Head 540g
Electronics 190 g

Size Electronics 116 x 68.5 x 30 mm

