

AC/DC CLOSED LOOP SPLIT CORE TRANSDUCER

Accurate, Rugged, Versatile and Reliable

- Two models AT 30 and AT 300.
- AC / DC Instantaneous Outputs up to 300Amps.
- Single and Dual supply Versions.
- Excellent Accuracy with 1mA Resolution.
- Split core for Non-Invasive Current Measurement.
- Compact Lightweight design.
- Broad bandwidth DC to 100kHz.
- DIN rail and panel mount options.

IP40



Safety and EMC Conformance

Conformance to European standards for safety and EMC ensures a safe product with high reliability through reduced susceptibility to electromagnetic interference.

Typical Applications

- Railway Trackside Applications.
- Battery Charging Systems.
- Automotive applications e.g. Leakage current measurement on car battery lead, detection of ECU sleep mode and current profiling, all requiring high accuracy and superior resolution.
- Power Supplies for Telecoms.
- Airport Lighting Circuits.

SPECIFICATIONS

NON-INVASIVE AC / DC SPLIT CORE CURRENT TRANSDUCERS		
MODEL	AT 30	AT 300
Current Range	30A DC or AC <i>PEAK</i>	300A DC or AC <i>PEAK</i>
Output Sensitivity	100mV/A	10mV/A
Output Zero Drift	$\pm 1\text{mV}/^\circ\text{C}$	$\pm 0.1\text{mV}/^\circ\text{C}$
Output Connection	Via 5 pin connector Phoenix MC1, 5/5-G-3, 81	
Frequency Range	DC to 100kHz (-3dB)	
Resolution	$\pm 1\text{mA}$	
Basic Accuracy	$\pm 1\%$ of reading $\pm 5\text{mA}$	
Conductor Position Sensitivity	$\pm 0.5\%$ relative to centre reading	
Conductor Diameter	25 mm maximum	
Power Supply	+12V $\pm 5\%$ external	$\pm 15\text{V} \pm 10\%$ external
Current Consumption	25mA + 1mA/A measured	
Load Impedance	$> 10\text{k}\Omega$	

Environmental data

Operating Temperature: -20°C to 65°C (-4°F to 149°F)

Temp. Coefficient: $\pm 0.02\%$ of reading per $^\circ\text{C}$

Storage Temperature: -20°C to 85°C (-4°F to 185°F)

All accuracies stated at: $23^\circ\text{C} \pm 1^\circ\text{C}$ ($73.4^\circ\text{F} \pm 1.8^\circ\text{F}$)

Ingress Protection: IP40 (Jaws closed)

Part / Model Number

P-16.200.0 AT 30
P-16.460.0 AT 300

Also available with cable output option:

P-16.200.1 AT 30C
P-16.460.1 AT 300C

Safety

BS EN 61010-1:2010, BS EN 61010-2-032:2012
300V RMS Measurement Category III
Pollution Degree 2

300V AC RMS or DC between uninsulated conductor and ground

BS EN 61326-1:2013 for equipment intended to be use in an industrial electromagnetic environment

Mechanical Data

Dimensions: (mm) 100(H) x 65(W) x 25(D)
Jaw Capacity: $\varnothing 25\text{mm}$
Weight: 120g

GMC-I PROSYS Ltd offers a wide range of non-invasive Probes, Clamp Meters and Transducers for the measurement and analysis of Current and Voltage.