

AC/DC CLOSED LOOP SPLITCORE TRANSDUCERS

Accurate, Rugged, Versatile and Reliable

- Two models AT 30 and AT 300
- AC / DC 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



IP40

High Accuracy with 1mA Resolution

Advanced patented magnetic circuit design results in transducer's accuracy to be little affected by external magnetic fields or off-centre conductor positioning.

EN61010-2-032:2012 and EMC Conformance

Conformance to EMC standards ensures high reliability through reduced susceptibility to electromagnetic interference.

TYPICAL APPLICATIONS

- Railway Trackside Applications
- Battery Charging Systems
- Automotive applications eg., 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

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SPECIFICATIONS

NON-INVASIVE AC / DC SPLIT CORE CURRENT TRANSDUCERS

MODEL	AT 30	AT 300
Current Range	30A DC or AC _{RMS}	300A DC or AC _{PEAK}
Output Sensitivity	100mV/A	10mV/A
Frequency Range	DC to 100kHz (-3dB)	DC to 100kHz (-3dB)
Resolution	± 1mA	
Basic Accuracy	± 1% of reading ± 5mA	
Output Zero Drift	± 1mV/°C	± 0.1mV/°C
Conductor Position Sensitivity	< ± 1% relative to centre reading	
Conductor Diameter	25 mm maximum	
Power Supply	+12V ± 5% external	± 15V ± 10%
Current Consumption	25mA + 1mA/A measured	
Load Impedance	> 10 kΩ	
Output Connection	Via 5 pin connector Phoenix MC1, 5/5-G-3, 81	

ENVIRONMENTAL DATA

Operating Temperature	-20°C to +65°C
Temp. Coefficient	± 0.02% of reading per °C
Storage Temperature	-20°C to +85°C
Ingress Protection	IP40 (jaws closed)

MECHANICAL DATA

Dimensions (mm)	100 (H) x 65 (W) x 25 (D)
Jaw Capacity	25mm ∅
Weight	120 g.

SAFETY

EN61010-2-032:2012,
300V, Measurement Category III, Pollution Degree 2.

MAXIMUM SAFE VOLTAGES

300V AC RMS or DC between uninsulated conductor and ground

All accuracies stated at 23°C ± 1°C (73.4°F ± 1.8°F)

Part No's

MODEL

P-16.200.0	AT 30
P-16.460.0	AT 300

Also available with cable output

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

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