

# AC/DC OPEN LOOP SPLIT CORE TRANSDUCERS

## Accurate, Rugged, Versatile and Reliable

- Two models AT 1000 and ATi 1000 (**TRUE RMS**)
- AC / DC up to 1000Amps
- Instantaneous Voltage or 4 to 20mA Current Outputs
- Excellent Accuracy with High Resolution
- Split core for non-invasive Current Measurement
- Compact Lightweight Design
- Broad Bandwidth DC to 10kHz



## IP40

### High Accuracy with 100mA 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
- Power Supplies for Telecoms
- Airport Lighting Circuits

AC/DC OPEN LOOP SPLIT CORE TRANSDUCERS\_150413\_01

#### GMC-I PROSYS Ltd.

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Registered Company Number: 5116760  
Vat Number: GB863880193

## SPECIFICATIONS

### NON-INVASIVE AC / DC SPLIT CORE CURRENT TRANSDUCERS

MODEL	AT 1000	ATi 1000 TRMS
Current Range	1000A DC or AC <sub>PEAK</sub>	1000A DC or AC <sub>RMS</sub>
Output Sensitivity	10mV/A w.r.t. 0V	4 to 20mA DC
Frequency Range	DC to 10kHz (-3dB)	DC to 10kHz (-3dB)
Basic Accuracy	± 1% of reading ± 0.5A	± 1% of range
Conductor Position Sensitivity	< ± 1.5% relative to centre reading	
Conductor Diameter	25 mm maximum	
Power Supply	± 15V ± 5% external	+ 9V to +36V external
Current Consumption	20mA	35mA + I <sub>OUT</sub>
Load Impedance	> 10 kOhms	≤ 300Ω
Output Connection	Via 5 pin connector Phoenix MC1, 5/5-G-3, 81	

### ENVIRONMENTAL DATA

Operating Temperature	-20°C to +65°C
Temp. Coefficient	± 0.1% 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-16.600.0	AT 1000
P-16.600.1	ATi 1000

*Also available with cable output*

P-16.600.2	AT 1000C
P-16.600.3	ATi 1000C

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

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