

AC/DC OPEN LOOP SPLIT CORE TRANSDUCERS

Accurate, Rugged, Versatile and Reliable

- Two models AT 500 and ATi 500 (**TRUE RMS**)
- AC / DC up to 500Amps
- 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_500A_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 500	ATi 500 TRMS
Current Range	500A DC or AC _{PEAK}	500A DC or AC _{RMS}
Output Sensitivity	20mV/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 _{OUT}
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-16.500.0	AT 500
P-16.500.1	ATi 500
<i>Also available with cable output</i>	
P-16.500.2	AT 500C
P-16.500.3	ATi 500C

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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