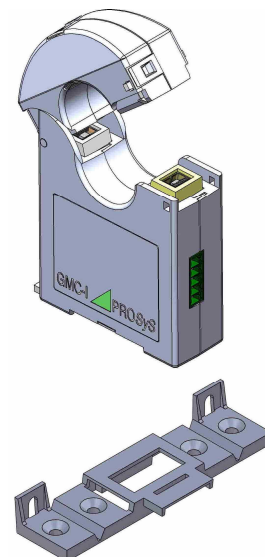


P/N: P-16.500.0

AC/DC Split Core Current Transducer Model AT 500

The AT 500 split core current transducer uses Hall Effect technology for accurate measurement of both DC and AC current. The unique snap closed design allows easy connection around conductors making it ideal for retrofitting.



Electrical Characteristics

Measuring Range	500A DC or AC _{PEAK}
Output Sensitivity	20mV/A (w.r.t. 0V)
Output Zero Offset.....	± 10mV
Accuracy ¹⁾ (at +25°C)	± 1% of reading ± 0.5A
Conductor Position Sensitivity (6mm dia. conductor)	± 1% relative to centre reading
Resolution	± 100mA
Load Impedance.....	> 10kΩ and ≤ 100pF
Frequency Range ¹⁾	DC to 10kHz (-3dB)
Temperature Coefficient	± 0.1% of reading per °C
Zero Drift with Temperature	5mV per °C Typical
Power Supply	± 15V ± 10%, external
Current Consumption (Max)	20mA
Working Voltage (see Safety Standards section).....	300 V AC _{RMS} or DC

General Characteristics

Maximum Conductor Size	25mm
Output Connection	via 5 pin connector, Phoenix Contact MC 1,5/5-G-3,81
Output Zero	Intended for external zero correction
Operating Temperature Range.....	-20 to +65°C
Storage Temperature Range	-20 to +85°C
Operating Humidity.....	15% to 85% RH (non-condensing)
Storage Humidity	10% to 90% RH (non-condensing)
Ingress Protection (Jaw closed).....	IP 40
Safety Standard.....	BS EN 61010-1:2010 BS EN 61010-2-032:2012
Voltage Rating.....	300V
Installation Category.....	CAT III, Pollution degree 2
EMC Standard.....	BS EN 61326-1:2013
Protection against mechanical impact (IEC 62262)	IK06

Note: ¹⁾ Conductor positioned at centre of aperture

AT 500_160225_GMC_01

GMC-Instrumentation Ltd.

Virage Point Virage Park | Walsall Road | Bridgtown | Cannock | Staffordshire | WS11 0NH | United Kingdom
Telephone +44 (0) 1543 469511 | Fax: +44 (0) 1543 579391
www.gmciuk.com | sales@gmciuk.com

Safety

The following symbols appear on the product:



Do not dispose of this product as unsorted municipal waste. Contact a qualified recycler for disposal.



Double/Reinforced Insulation



Complies with the relevant European standards



Caution read all instructions completely before using this product



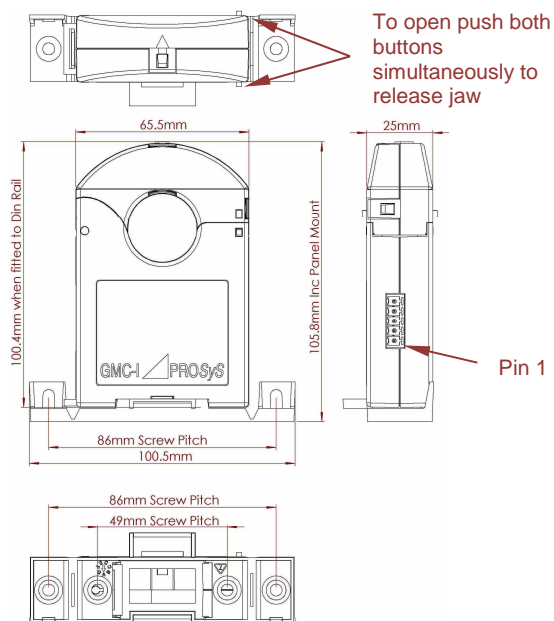
Do not apply around or remove from UNINSULATED HAZARDOUS LIVE conductors, which may cause electric shock, electric burn, or arc flash



Caution risk of danger read all instructions completely before using this product:

- This product must be installed and commissioned only by qualified personnel practising applicable safety precautions.
- Always de-energise circuit under test before this product is installed or maintained.
- The applicable national standards and regulations must be adhered to during the installation, maintenance and operation of this product.
- This product is intended to be used in a fixed installation, all conducting parts must be inaccessible after installation.
- Use caution during installation of this product; high voltages and currents may be present in parts of the module (e.g. power supply, primary conductor, output connections).
- Installation and maintenance should be carried out with the power supply disconnected.
- Always inspect the unit and connecting cable for damage before using this product, do not use if damaged.
- Product jaw **MUST** be closed before product is put into operation
- The product may be cleaned using a cloth dampened with Isopropyl alcohol, ensure the product is totally dry before use.
- There are no user serviceable parts on this product, it must be returned to supplier or manufacture for service.
- If the product is used in a manner not specified by the manufacturer the protection provided by the product may be impaired.

Dimensions and Connection Details



PIN No	Function
1	+ 15 V
2	0 V
3	- 15 V
4	Output +
5	Output –

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