

AM-TR-30DC - AM-TR-300DC

AC/DC Closed Loop Splitcore Transducers

Accurate, Rugged, Versatile and Reliable

- Two models AM-TR-30DC and AM-TR-300DC
- 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



Specifications

Non-Invasive AC/DC Split Core Current Transducers		
MODEL	AM-TR-30DC	AM-TR-300DC
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)

Safety

EN61010-2-032:2012,
300V, measurement category III, pollution degree 2.

Mechanical Data

dimensions in mm HxWxD	100 x 65 x 25
jaw capacity	25 mm
weight	120 g

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)



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