

ARTEMES

arte[s] me[nzioni]s - The Art of Measuring
Power & Energy



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



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)

Measurements for Power Applications

System Integration and Monitoring Solution

convenient generation of reports

data compression and data base solutions for easy and individual use

cloud solutions for continuous and distributed measurement tasks

automated test sequences for repeated testings



energy management systems for commerce and industry

load profile measurings and multi-channel power analyses

power quality analyses according to definded standards

qualification of power plants with renewables

software and hardware solutions for individual test bench systems

