Micro Thermo Technologies™ High Current Wireless Sensor

The MTT sensor series is made up of non-invasive, self-powered, miniature wireless current sensors. The µNode[14] high-current sensor attaches to any size standard 0-5 A current transformer, allowing measurements at any current range or wire gauge. Hundreds of sensors can be installed in a few hours with no disturbance of daily operations. Powered by magnetic fields, the sensors become part of the building infrastructure, never requiring maintenance, service or battery replacement.

Specifications	µNode[14]
Physical dimensions	33.8 × 29 × 42.5 mm 1.33 × 1.14 × 1.67 inch
Current input range (from external current transformer)	0-5 A_{RMS} (up to 10 A peak)
Current measurement range	Any applicable range based on CT ratio
Current measurement error (typical)	<2% at I > 2% of full-scale current
Minimum operating current (at input from external current transformer)	0.03 – 0.05 A
AC frequency supported	50 Hz (EU version) 60 Hz (US version)
Transmission frequency	434 MHz (EU) 915 MHz (US)
Transmission power (ERP)*	0 dBm (Max)
Transmission interval	10 seconds
Safety and EMC certificates*	USA & Canada Safety: UL-61010-1, CSA-C22.2 (ETL listed) EMC/Radio: FCC Part 15 subpart B, C Europe Safety: EN-61010-1 (CE) EMC: EN-ETSI 301489-3, Radio: EN-ETSI 300220-1 Israel Safety: IS-61010-1 (IEC 61010-1 modified) Radio: MoC Approval
Flammability rating of external enclosure	UL94 V-0
Operating temperature	0 – 50° C
Storage temperature	-20 – 65° C
***Pending certification testing**	

µNode[14] mounted on an off-the-shelf CT

Key Features

- Connects to any standard 0-5A CT
- No maintenance; self-powered (does not require battery)
- High accuracy
- Wireless – sensor & CT are closed around the hotwire with no additional wiring
- Real-time high-frequency current data transmitted every 10 seconds

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