



Micro Thermo Technologies™ μNode Sensor Family



The MTT sensor series is made up of non-invasive, self-powered, miniature wireless current sensors. The sensors clamp on the electrical outgoing wire from the circuit breaker, and powered by magnetic fields. Hundreds of sensors can be installed in a few hours with no disturbance of daily operations. Once installed, the sensors become part of the building infrastructure, never requiring maintenance, service or battery replacement.

Specifications	μNode ¹⁰	μNode ¹²
Physical dimensions	17 x 20 x 32 mm 0.67 x 0.79 x 1.26 inch	46.2 x 22.8 x 32.6 mm 1.82 x 0.90 x 1.28 inch
Max hot-air outer diameter (including insulation)	7 mm 0.28 inch	18.8 mm 0.74 inch
Current measurement range	0-63 A	0-225 A
Current measurement accuracy (typical, at 25°C)	<2% at I>1A	<2% at I>10A
Minimum operating current	0.3 – 0.45 A	0.5 – 0.8 A
AC frequency supported	50 Hz (EU) 60 Hz (US)	50 Hz (EU) 60 Hz (US)
Transmission frequency	434 MHz (EU) 902-928 MHz (US)	434 MHz (EU) 902-928 MHz (US)
Transmission power (ERP)	0 dBm (Max)	0 dBm (Max)
Transmission interval	10 seconds	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	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
Flammability rating of external enclosure	UL94 V-0	UL94 V-0
Operating temperature	0-50° C	0-50° C
Storage temperature	-20-65° C	-20-65° C

Key Features

- Non-invasive, snaps and fits on an electric hot-wire without disconnection
- No maintenance; self-powered (does not require battery)
- High accuracy
- Wireless – no wiring, unlike standard CT-based monitoring systems
- Real-time high-frequency current data transmitted every 10 seconds



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