




ALTA Industrial Wireless 500 Three Phase Current Meter | Technical Specifications

Supply Voltage	2.0–3.8 VDC (3.0–3.8 VDC using power supply) *	
Current Consumption	0.2 μ A (sleep mode), 0.7 μ A (RTC sleep), 570 μ A (MCU idle), 2.5 mA (MCU active), 5.5 mA (radio RX mode), 22.6 mA (radio TX mode)	
Operating Temperature Range (board circuitry and battery)	-40°C to +85°C (-40°F to +185°F) **	
Included Battery	Max temperature range	-40°C to +85°C (-40°F to +185°F)
	Capacity	1500 mAh
Datalogged Memory	64 Kbytes (~2048 Message when Datalog is configured, datalog enabled by default)	
Wireless Range	1,200+ ft non-line-of-sight	
Security	Encrypt-RF® (256-bit key exchange and AES-128 CTR)	
Weight	28.7 ounces	
Enclosure Rating	NEMA 1, 2, 4, 4x, 12 and 13 rated, sealed and weather proof	
UL Rating	UL Listed to UL508-4x specifications (File E194432)	
Certifications	   Industry Canada	900 MHz product; FCC ID: ZTL-G2SC1 and IC: 9794A-G2SC1. 868 and 433 MHz product tested and found to comply with: EN 300 220-2 V3.1.1 (2017-02), EN 300 220-2 V3.1.1 (2017-02) and EN 60950

Current Transformer Specifications

Number of Current Transducers	3 per sensor (3 ft wires)
Absolute Max CT Current	600 Amps RMS (A rms)
Maximum Accurate CT Current	500 Amps RMS (A rms)
Frequency Measurement Range	50–100 Hz
Accuracy	+/- (2% + 1.4 A rms)
Measurement Resolution	Average: 0.3 A rms Max: 3 A rms Min: 3 A rms Duty: 1% Amp Hours: 0.1 Amp Hours
Current transducer dimensions	93 mm X 68 mm X 52 mm (36 mm inner diameter)

* Hardware cannot withstand negative voltage. Please take care when connecting a power device.

** At temperatures above 100°C, it is possible for the board circuitry to lose programmed memory.

Example Interfacing

- Current monitoring
- Current usage
- Amperage monitoring
- Amp hour meter

Industrial Grade Sensors | Type 1, 2, 4, 4X, 12 and 13 NEMA Rated Enclosure

Monnit's Industrial sensors are enclosed in reliable, weatherproof NEMA-rated enclosures. Our NEMA-rated enclosures are constructed for both indoor or outdoor use and protect the sensor circuitry against the ingress of solid foreign objects like dust as well as the damaging effects of water (rain, sleet, snow, splashing water, and hose-directed water).

- Safe from falling dirt
- Protects against wind-blown dust
- Protects against rain, sleet, snow, splashing water, and hose-directed water
- Increased level of corrosion resistance
- Will remain undamaged by ice formation on the enclosure



For more information about our products or to place an order, please contact our sales department at 801-561-5555.

Visit us on the web at www.monnit.com.

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