

# Monitor1440



## About the Monitor1440

Monitor1440 provides the ability to gather real-time engine data and make the data available through standard Modbus RTU over RS-485. In addition to engine data Monitor1440 provides the ability to add up to four 4 - 20 mA analog inputs.

The inputs can be used to bring back pressure sensors, tank levels and other operating parameters to help provide the operational intelligence for your remote site.

When combining Monitor1440 with AMCi-Wireless remote monitoring service and Wireless 1440™ you are able to achieve automated engine insight and automatically generate operator reports.



## Key Features:

- **C1D2**
- Engine Operation Data
- Modbus RTU
- RS-485
- 4 Analog Inputs
- Operator Interface
- DIN-rail or panel-mount

### Disclaimer

AMCi warranties Monitor1440 hardware for a full three years (36 months) \*

\* Warranty is subject to AMCi published Terms and conditions. Contact your AMCi representative to obtain a copy or visit [www.amci-wireless.com](http://www.amci-wireless.com)

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## Specifications

### General Specifications:

- Required power in a steady state: 130 mA @ 24 VDC
- Required power inrush: 30 A for 1 ms @ 24 VDC
- Primary power range: 10 - 30 VDC
- Relative humidity: 5 to 95% non-condensing
- Operating temperature: 0°C to +50°C
- Communication Protocol
  - Modbus RTU 9600, 8, n, 1

### Analog Inputs, Medium Resolution:

- 4 input channels
- 4 - 20 mA input ranges
- Safe input voltage range between -0.5 V to +12 V
- Input impedance (clamped @ -0.5 VDC to 12 VDC)
  - Current mode: 100  $\Omega$
- 10 bit nominal resolution
- 35 mA maximum over-current
- Maximum error at 25°C (excluding zero)
  - 4-20 mA at 1.00%
- 160 HZ hash noise filter 1-128 scan digital running average filter

### Certification/Compliance:

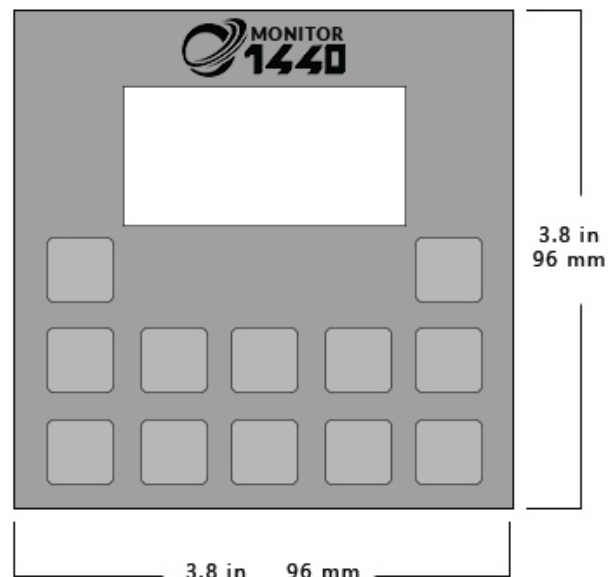
- CE
  - 2017072-E180220
  - 7/20/17
- UL:
  - ATEX Directive
  - 2014/34/EU
  - EMC Electromagnetic Compatibility
  - 2014/30/EU

### Physical:

- 3.8 x 3.8 in. (96 x 96 mm)
- 12 oz (340 g)

### Warranty:

- 3 year standard limited warranty



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