Truly wireless
Ranger Pro

ATEX/IECEX Zone 0/CSA Class 1 Div 1

ISA100 & WirelessHART protocol

User-friendly and collaborative

Connected with System 1

Temp and triaxial capable
### Specifications summary (See datasheet 125M5237 for full details)

| **Accelerometers** | Axis | 1 or 3 axes  
| | Amplitude range | ±20 g peak  
| | Measurement accuracy | ±5% (160 Hz) Z-axis, ±10% (160 Hz) X and Y axis  
| **Static overall variables** | Acceleration frequency range | Z axis: 5 Hz (±3dB) to 10 kHz (±3dB), X and Y axis: 5 Hz (±3dB) to 4 kHz (±3dB) (Tri-axial sensor only)  
| | Accel Fmin / Fmax (Hz) | 2, 5, 10, 100, 200 / 200, 500, 1000, 2000, 5000, (10000 Z-axis only)  
| | Velocity range | 5 – 2000 (Hz) / 0 – 50 mm/s (0 – 2 in/s)  
| | Velocity Fmin / Fmax (Hz) | 5, 10 / 200, 500, 1000, 2000  
| | Measurement interval | 10, 20, 30, 60, 120, 180, 240, 360 (minutes)  
| **Waveforms and spectra** | Accel Fmin / Fmax (Hz) | 2, 5, 10 / 200, 500, 1000, 2000, 5000, 10000  
| | Number of samples | 1024, 2048, 4096, 8192  
| | Velocity Fmin / Fmax (Hz) | 5, 10 / 200, 500, 1000, 2000  
| | Number of lines | 400, 800, 1600, 3200  
| | Waveform Measurement intervals | 6, 8, 12, 24, 48, 168, 336, 672 (hours)  
| **Temperature sensor** | Measurement range | -40 °C to 120 °C (-40 °F to 248 °F)  
| **Wireless** | Network standard | ISA100.11a or WirelessHART*  
| | Radio standard | IEEE 802.15.4, 2.45 GHz ISM band  
| | Encryption/ security | 128-bit AES encrypted packets  
| | Wireless range | 150 meters sensor to access point, 100 meters sensor to sensor, line of sight. (Actual range depends on obstacles present, gateway antenna type, and orientation of the sensor relative to the gateway antenna.)  
| **Battery and power** | Type | Replaceable D size 3.6V lithium–thionyl chloride.  
| | Life | Up to five years depending on the operating mode and configuration.  
| **Operating conditions** | Operating temperature | -40 °C to 85 °C (-40 °F to 185 °F)  
| **Physical** | Weight | 230 grams (without battery; 300 grams with battery)  
| | Dimensions | Height: 88 mm; diameter: 40 mm  
| | Case material | 316 stainless steel body and glass-reinforced, impact-resistant  
| | Mounting hole | M6 x 1mm X 5mm deep internal thread  
| | IP rating | IP67 dust and water resistant (pending)  
| **Regulatory compliance** | EMC conformity | IEC 61326-1, ETSI EN 301 489-1, CISPR22, ETSI EN 301 489-17  
| | Radio spectrum | ETSI EN 300 328  
| | Safety | ETSI EN 61010-1, IEC 62479  
| | Hazardous atmosphere | CSA Class I Division 1 Groups A, B, C, D T4 ATEX/IECEx Zone 0  
| | Conformity | Compliant with all CE and FCC/IC requirements  
| **Compatible gateways** | Emerson | WirelessHART® – Emerson 1410 or 1420 v4.7.84 or higher  
| | Honeywell | ISA100 – Honeywell WDM R310.2-4 or higher  
| | Yokogawa | ISA100 – Yokogawa YFGW 410/510  

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