

## TECHNICAL SPECIFICATIONS

# Treon Industrial Node 6 Ex\*

### Dimensions

78.5 x 28mm  
Mounting to M8 thread  
Weight 129g  
Cover material 316ss  
Top cap material PA

### Environment

Operating temperature -40°C to +60°C  
(hazardous environment) / -40°C to +85°C  
(non-hazardous environment)

Storage temperature +10 to +30°C  
IP rating IP67

### Wireless communication

2.4GHz / Wirepas Mesh

### Battery

3.6V lithium thionyl chloride  
Battery lifetime up to 5 years  
(Battery life is dependent on operating temperature and configuration)

### Software

Fully configurable data delivery

### Vibration

Triaxial acceleration measurement  
Dynamic range +/- 2, 4, 8 or 16  
Frequency range 2-6300Hz (+/-3dB) \*  
Sampling rate 26.7kHz  
Resolution 16bit

### Temperature

Measurement range -40°C to +85°C \*\*  
Resolution 0.1°C  
Accuracy +/- 0.3°C  
Repeatability +/- 0.1°C

### Key performance indicators

Velocity: RMS, PEAK, P2P  
Acceleration: RMS, PEAK, P2P, kurtosis,  
crest factor

### Sample amounts

Single axis, max. 110592 samples  
Triaxial, max. 36864 samples per axis

\* Mounting dependent

\*\* Limited by maximum operating temperature

### Signal processing

Butterworth high, low and band pass filter  
Configurable low and high cut-off  
Decimation configurable, max. ratio 1:9

### FFT Calculation

Sample amount 4096  
Lines of resolution 1600  
Averages, max. 9  
Overlap, 0 to 100%  
Hanning windowing

### Patent

Pat. US11656239

### Certifications

ATEX/IECEX

II 2 G Ex ib IIC T4 Gb, when  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

II 2 D Ex ib IIIC T135°C Db, when  $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

HazLoc, MET

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\*This patented technology is protected by US Patent 11656239.