

TECHNICAL SPECIFICATIONS

Treon Industrial Node 6

Dimensions

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

Environment

Operating temperature -40°C to +85°C
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 +105°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

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

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