



Limited Only By Your *Imagination*

Vibration Monitoring

Model IIoT-1X30

SolutioNet™ 4.0

LoRa™ Bluetooth™ WirelessHART

Efficient and reliable vibration monitoring will lengthen service life in all types of rotating equipment. The IIoT-1X30 (vibration node) and IIoT-1X50 (Vibration/Temperature node) efficiently captures vibration data and transmits it wirelessly to wherever needed. Armed with this information, management can make timely and less disruptive decisions for major machinery repair. The IIoT-1000 series is configurable as a self-contained, self-powered unit that works in synchronization with existing SCADA systems as well as all IIoTTTI wireless data acquisition instrumentation and software. The IIoT-1X30 and 1X50 models utilize a triaxial accelerometer with a frequency range of 4-1000Hz, and a calibrated amplitude range of 0-1ips (0-25.4mm/s). The IIoT-1050 combination unit comes standard with a 1000 Ohm Platinum RTD that monitors temperatures ranging from (0° to 185°F) (-17.7° to 85°C). Both devices are certified for Class I Div I / Zone 0 ATEX environments.

Before shipment, all devices are NIST calibrated by IIoT-TTI technicians to precisely measure operating ranges as defined by specific customer application. Each device has a self-transmitting range of ¾ mile or 1.2 km. For longer distance requirements, the use of IIoT-5000 series Intelligent Repeaters expands the effective transmission range to 7 miles or 11.3 km. For offsite or global transmission, other communication methods can easily be added to the final system configuration. This includes, but is not limited to, traditional wired solutions fiber optics, modems, satellites, wireless devices, etc.

IIoTTTI has the perfect wireless solution to capture, transmit, and integrate valuable data. In areas where AC power is limited or unavailable, IIoTTTI wireless devices are the instruments of choice. Their performance, reliability, and toughness are unmatched in the industry. Typical applications for these devices include point monitoring on rotating equipment such as motors, blower or fan housings, pump bases, compressor frames, bearing housings, skid frames, etc.

This Datasheet Contains Protected Information

- Triggered Alerts & Alarms
- 8 Peak FFT

Efficient and reliable vibration monitoring lengthens service life and optimizes performance in all types of rotating equipment



Please refer to the test sheets for final parameters

IIoT Technology Innovations

TX, USA Model: IIoT-1XXX Series

CE 2776 UK CA 2503 Ex II 1 G D



Electrical and Hazardous Location Safety

E115651

IECEX CML 22.0021X
CML 22ATEX2158X
CML 22UKEX2159X

Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
-40°C ≤ Ta ≤ +60°C

Cl I, Zn 0 AEx ia IIC T4 Ga
Cl II, Zone 20 AEx ia IIIC T135°C Da
I.S. for Cl I, Div 1 T4 Grps A, B, C, D;
Cl II, Div 1 T135°C Grps E, F, G;
Cl III, Div 1 and provides I.S. circuits with Entity Parameters per Install Manual 703-1008-01*
Tem. Code T4
-40°C ≤ Ta ≤ +60°C

WARNING: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT.

AVERTISSEMENT: NE PAS OUVRIR EN PRÉSENCE D'UNE ATMOSPHÈRE EXPLOSIVE.

WARNING: WIPE ONLY WITH DAMP CLOTH DUE TO ELECTROSTATIC DISCHARGE HAZARD

AVERTISSEMENT: ESSUYER AVEC UN CHIFFON HUMIDE EN RAISON DE RISQUES DE DÉCHARGES ÉLECTROSTATIQUES

WARNING: USE ONLY BATTERY PACK S1-1061

AVERTISSEMENT: UTILISEZ UNIQUEMENT REMPLAÇABLE LA BATTERIE PACK S1-1061

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