



CBM Predictor by ProTrack - Datasheet

Functional Specifications

Main use

Wireless detector and data server for Abnormal Condition Detection (ACD).

- Model 101 - Pop & Leak detection for PSV's
- Model 102 - Shut down valve leak detection
- Model 201 - Heat tracing supervision

Design Features

Wireless connects to smart phones, tablets or wireless routers with Bluetooth® Low Energy (BLE) wireless technology

Housing : LNP STAT-KON PFD04, a compound based on PA 6 resin containing Glass Fiber, Carbon Powder. Added features include: Electrically Conductive, Heat Stabilized.

Housing cover : Grilamid® TR 55, a Polyamide 12 (Nylon 12) material. Important attributes of Grilamid® TR 55 are Flame Rated and RoHS Compliant

Ultra-low power consumption, lifetime

battery Secure field programmable

Self-Calibration

The CBM Predictor monitors the equipment continuously while in low power consumption mode and will switch to full communication mode on request, on preset time intervals or triggered by the abnormal condition.

Physical Specifications

Environment

The complete assembly will withstand saline and humid atmosphere Operating temperature: -20 deg C to +70 deg C

Electrical Connections / Battery

Not replicable, non-rechargeable, Intrinsically Safe Lithium-Thionyl Chloride battery Eight to twelve-year battery life at reference conditions

Field Data Communication

All data communication is wireless via BLE 5 including upload of configuration data and operation system upgrades. The Device can also communicate via BLE4 with more mature handheld devices.

Antenna

Integral in electronic circuit design

Mounting

Device to be attached directly on the to be monitored equipment or thermowell depending on the design

Weight: 150g

Sensors

Ultrasonic vibration
sensors surface
temperature sensor
external sensors depending on the application

FCC and IC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:
This device may not cause harmful interference. This device must accept any interference received, including interference that may cause undesired operation.

Reference environmental and electrical specification

Hazardous Locations Certificates
Explosion protection Ex 2G Ex ia IIC T4 Gb, T ambient -20 deg C to +70 deg C - ATEX Directive (2014/34/EU) CAM B Applied Standard : EN 60079-0:2018; EN60079-11:2012

Environmental protection

Environmental protection according to IEC standard 60529 to IP 67

Electro Magnetic Compatibility (EMC)

EMC Directive: EN 61326-1:2013, EN 61326-2-3: 2013
Radio and Telecommunications Terminal Equipment Directive (R&TTE) Ideation complies with R&TTE Directive

Vibration Effect

Tested per the requirements of IEC60770-1 field or pipeline with high vibration level (10-60 Hz 0.21 mm displacement peak amplitude / 60-2000 Hz 3g)



Contact and further information:
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