

# Machine Health Monitor

MHM series : Wear Debris and Water in Lubricating oil



## Portable Oil Condition Monitoring

Gfs NP330-F Sensor measures the dielectric property of the oil for the purpose of detecting water content in oil significantly, and also wear debris content.

The Water In Oil Monitor can be used for various Oils to detect Water percentage in real time. The Oil due to use, exposure to atmosphere and due to breathing process gets water particles into it which over the time increases and even emulsifies.

Water needs to be detected to avoid erosion of machinery and gears in case of Lube / Gear Oil and for Fuel Oil water causes problems in combustion ultimately causing higher NOx and other pollutant emissions.

Various Methods are used for detecting water in oil, one of the most time efficient, easy and precise method is by dielectric principle.

### PRODUCT FEATURES

- Portable Unit**  
 IP67 rated water and chemical resistance case with 7 inch Touch screen display.
- Advanced Technology**  
 Dual core technology delivers exceptional sensitivity to oil condition changes caused by wear and water oil contamination.
- Accurate**  
 NP330-F is highly accurate and provides real time readings.
- Easy to carry**  
 The MHM monitor is small and easy to carry and test at site equipment and application.
- Configurable**  
 MHM is configurable for any synthetic and mineral oil type operating in any application.
- Data Logging and PC interface**  
 Measurement data can be logged with machine information along with date and time stamp , then data can be downloaded to PC.

### BENEFITS



**Optimise Service Intervals**  
 Optimise service intervals without risking equipment performance and reliability.



**Lower Operating Costs**  
 Less downtime and less maintenance significantly reduces ongoing operating costs.



**Hold debris**



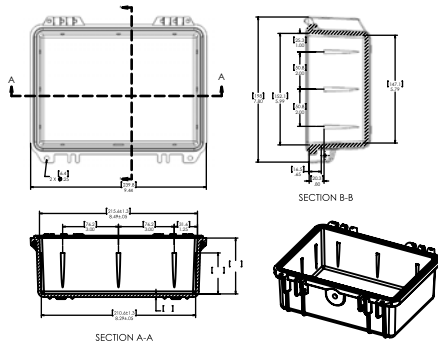
**Help the Environment**  
 Increase equipment efficiency. Reduce oil consumption, maintenance activity and costs and conserve the environment.

# Machine Health Monitor

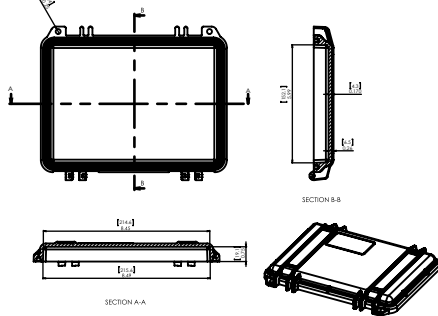
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## ➤ DIMENSIONS

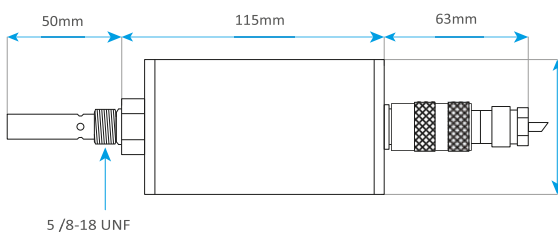
### PELICAN CASE BASE



### PELICAN CASE TOP



### Dimension



## ➤ MULTIPOINT MEASUREMENT ARCHITECTURE



## ➤ SPECIFICATIONS

### • Order Information

**Product Name:** Machine Health Monitor

**Product Code:** MHM-WW- 03

### • Physical

#### Portable Unit

**Material:** High impact structural copolymer polypropylene

**Dimensions:** 8.18 x 5.68 x 3.62" (20.8 x 14.4 x 9.2cm) (LxWxH)

**Weight:** 1.5 Kg

#### Display

**Display:** 7" Touch screen Display

**Dimensions:** 194mm x 110mm x 20mm (including standoffs)

**Viewable screen size:** 155mm x 86mm

**Screen Resolution:** 800 x 480 pixels

**Touch:** 10 finger capacitive touch

#### Sensor

**Material:** Aluminum Alloy, FEP, PEI

**Dimensions:** As Per Drawings

**Weight:** 0.7 Kg

### • Connections

**Sensor Wirings :** 26 AWG PTFE 3G210 shielded

### • Electrical

**Power Supply :** Battery Operated with charging units

### • Data Storage

**Storage :** USB internally and data download to PC

### • Oil Type

**Fuels :** Diesel, Gasoline

**Oils :** Hydraulic, Gear, Mineral, Vegetable, Synthetic Ester, Semi-synthetic, Polyalphaolefin (PAO), Polyalkyleneglycol (PAG)

**Coolants :** Ethylene Glycol, water

**Fluids :** Salt water

### • Environmental - Protection Class

**Sensor :** IP68 / IP69k to EN60529

Enclosure IP65 to EN60529

**Operating temp :**

**Sensor :** -40°C to +150°C to EN60945, EN60068-2-1, ISO16750-4

**Enclosure :** -40°C to +85°C to EN60945, EN60068-2-1, ISO16750-4