

GPS 107 15ppm Bilge Alarm

Customer inspired innovation

The **GPS107** uses technologies such as fluorescence spectrometry and ultrasonic cleaning to provide accurate oil content in water readings with no interference from chemicals/rust etc, and no manual intervention for daily cleaning of the optical window. These features also permit long service (4 years) and re-calibration (2 years) intervals.



Features

- **RapidWave**TM ultrasonic Cleaning
- Fluorescence Spectrometry
- DeepUV Fluorescence
- Optimised Design
- High Memory Capacity
- LED output control

Benefits

- Eliminates regular maintenance for cleaning
- Eliminates false positive readings
- Captures low fluorescent oil types
- Reduces service interval to 4 years
- Stores ppm and other important data for 10 years
- Reduces re-calibration interval to 2 years



Technical Specifications

OPERATING LIMITS:

| | |
|---------------------|-----------------------------|
| Ambient temperature | Min -20 deg C, Max 55 deg C |
| Sample temperature | Min 0 deg C, Max 80 deg C |
| Operating pressure | 0 to 7 bar |
| Flow velocity | 0.5 to 10 m/s |

MECHANICAL:

| | |
|----------------------|----------------------|
| Dimensions | 380x383x142mm(HxWxD) |
| Weight | 13.5kg |
| Sample connections | 1/4" NPT |
| Wetted parts | SS316/316L |
| Enclosure | SS316/316L |
| Enclosure protection | IP66, NEMA 4X |

INPUT SIGNALS:

| | |
|------------------|--|
| Separator Status | 0-5VDC signal, normally 1mA, maximum 5mA |
| Flow status | 0-5VDC signal, normally 1mA, maximum 5mA |

OUTPUT SIGNALS:

| |
|---|
| 3 x relay contacts, 5A @ 250VAC or 2A @ 28VDC |
| 1 x 4-20mA |

ELECTRICAL:

| | |
|----------------------------|-----------------------|
| Standard power requirement | 24VDC 6A |
| Optional power requirement | 110/230VAC |
| Consumption 24VDC 6A | 20W nominal 140W peak |
| Consumption 110/230VAC | 15W nominal 84W peak |

MEASUREMENT:

| | |
|-----------------------|---------------------------|
| Light source | Deep UV LED |
| Measurement principle | Fluorescence Spectrometry |
| Range | 0-100 ppm |
| Accuracy | +/- 1% |
| Repeatability | +/- 1% |
| Sample rate | once every 5 seconds |

COMPLIANCE

| | |
|--------------------------|-----------------------|
| 2014/22/EC | Measuring instruments |
| 2014/30/EU EMC Directive | EMC Directive |
| IMO MEPC 107 (49) | by DNV and USCG |
| DNVGL-CP-0485 | by DNV |
| ISO9001:2015 | |

