

CONDITION MONITORING

Contamination Monitoring Sensor 2

In-line particle Monitor

The CMS 2 in-line particle monitor automatically measures and displays particulate contamination, moisture and temperature levels in various hydraulic fluids. It is designed specifically to be mounted directly to systems, where ongoing measurement or analysis is required, and where space and costs are limited.



Overview

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DISPLAY OPTIONS

Simple and advanced display options for full particle count



USB CONNECTION

Download the results
directly to an USB storage



INDICATORS & ALARMS

Multi- colour display and light for alarm outputs



DUAL CONNECTIONS

Download the results during the operations

Benefits

- 1 8 channels for accurate measurements
- 2 Measures and displays in 4 international standards
- 3 Easy data access via internal data storage, USB storage or included software

Related Products

CMS-FC1

A pressure compensated flow control valve specifically designed to fit the CMS. This may be needed if the application produces an oil flow greater than 400ml/min. The CMS-FC1 is supplied with adaptors which enable the valve to be fitted to the CMS. The valve outlet port has a M16x2 Test Point installed as a standard option.

CMS-RDU

The CMS-RDU is a separate product that is used to remotely monitor or control an CMS when the CMS is out of reach in a location unsuitable for viewing.

CMS “USBi” CONVERTER

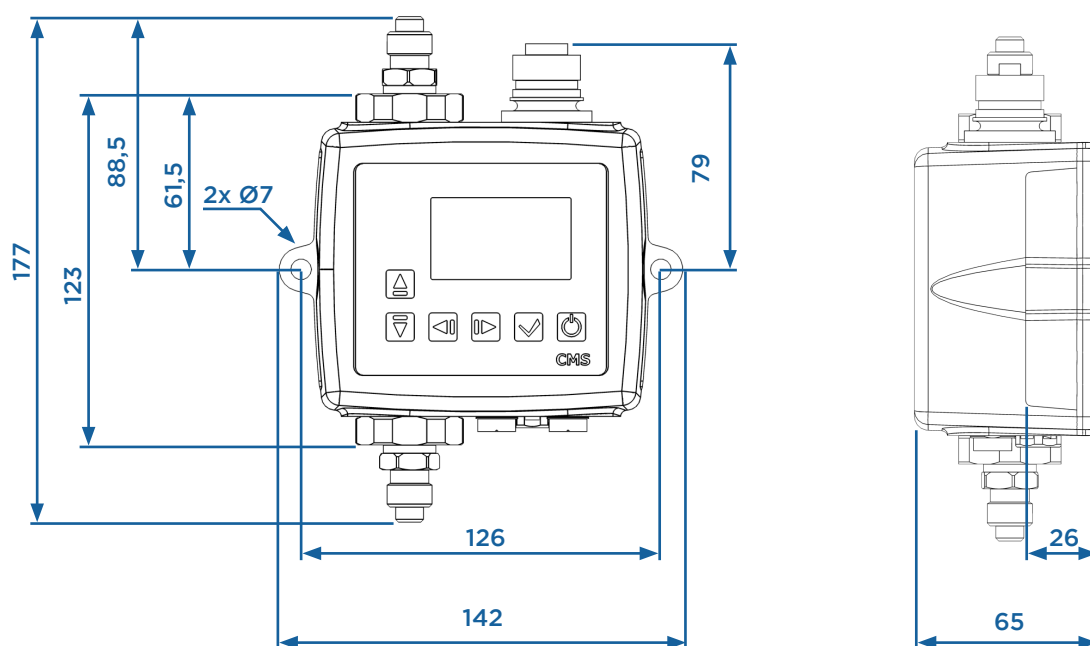
The USBi is a plug & play solution for connecting a CMS to a PC/Laptop. It comprises of a USB:RS485 interface, external power supply connection, USB connection and prewired CMS connection cable. This provides the flexibility of operating the CMS in multiple conditions and downloading data directly to your PC/Laptop.



Specifications & Dimensions

| PRODUCT DETAILS | |
|-------------------------------|---|
| Formats | ISO 4406:1999, NAS 1638, ES4059E Table 2, AS4059E Table 1, ISO 11218 |
| Accuracy | 3 1/2 code for 4, 6, 14 Qm (c), 3 1 code for larger sizes |
| Calibration | Each unit individually calibrated with ISO Medium Test Dust (MTD) based on ISO 11171 (1999) on equipment certified by IFTS. |
| Hydraulic fluid compatibility | Mineral oil & petroleum based fluids (consult RMF Systems for other fluids) |
| Flow rate | 20-400 ml/minute |
| Viscosity range | max. 1000 cSt |
| Fluid temperature | -25° C to +80° C |
| Maximum working pressure | 420 bar |
| Electrical supply | Voltage 9 - 36V DC |
| Seal material | FPM (Viton) Contact RMF Systems regarding any fluids that are incompatible with FPM seals |
| Test time | Adjustable 10 - 3600 seconds, factory set to 120 seconds |
| Moisture sensing | % RH (Relative Humidity) 33% |
| Temperature measurement | 33 °C |
| Flow rate measurement | Indication only |
| Data storage | 4000 tests |
| Communication options | RS 485, MODBUS, CANBUS, 4-20 mA |
| Ambient temperature | -25° C -to +80° C or -25° C to +55° C for K version |
| IP rating | IP 65/67 versatile IK04 Impact protection |
| Physical dimensions | 123(H) x 142(W) x 65(D) mm |
| Weight | 1,15 kg |

DIMENSIONS



To Order:

CONTAMINATION MONITORING SENSOR 2

| | | | | | | | | |
|--|--|--|--|--|--|--|---|---|
| CMS | | | | | | | - | 2 |
| Basic Configuration CMS - Contamination Monitoring Sensor | | | | | | | | |
| Sensor Option W - Moisture sensor option O - No sensor option | | | | | | | | |
| Fluid Compatibility M - Mineral fluid N - Offshore and selected water based fluids S - Phosphate ester and aggressive fluids | | | | | | | | |
| Keyboard and Display K - Keypad & Display O - No Keypad & Display | | | | | | | | |
| Relays R - Two fully customisable relay outputs to set limits for the test results and multi color LED indicators U - test record transfer (direct to USB stick) plus relays/external alarm outputs | | | | | | | | |
| Port Options G1 - test point M16x2 (standard) G2 - 1/8" BSP G3 - 1/4" BSP | | | | | | | | |
| Extra Options FC1 - Flow control valve assembled AZ2 - ATEX ZONE II CE II 3G Ex nR IIB T6 x - - No options | | | | | | | | |
| New Series 2 - CMS 2 | | | | | | | | |
| Related Products CMS-USBi - CMS to PC USB converter CMS-RDU2 - CMS remote display unit with keypad | | | | | | | | |

EXAMPLE

CMS W M K R G1 - 2