

# ACMU - Auxiliary Contamination Monitoring Unit

## ACMU

Incorporating the ICM contamination monitor, the ACMU is specifically designed for aerated, viscous and/or un-pressurized hydraulic/lubrication systems.

### Where can it be used?

- ◆ Wind/Tidal/Wave Energy
- ◆ Gearbox applications
- ◆ Gearbox monitoring
- ◆ Offshore & ship systems
- ◆ Lubrication & Oil systems
- ◆ Mobile Equipment
- ◆ Test Benches

### When should it be used?

- ◆ Entrained air or turbulent flows
- ◆ Higher viscosity fluids
- ◆ Un-pressurized systems

### Why should it be used?

- ◆ Easy to retro-fit.
- ◆ Exceptional communication & 4000 test memory.
- ◆ Reliable & accurate performance.

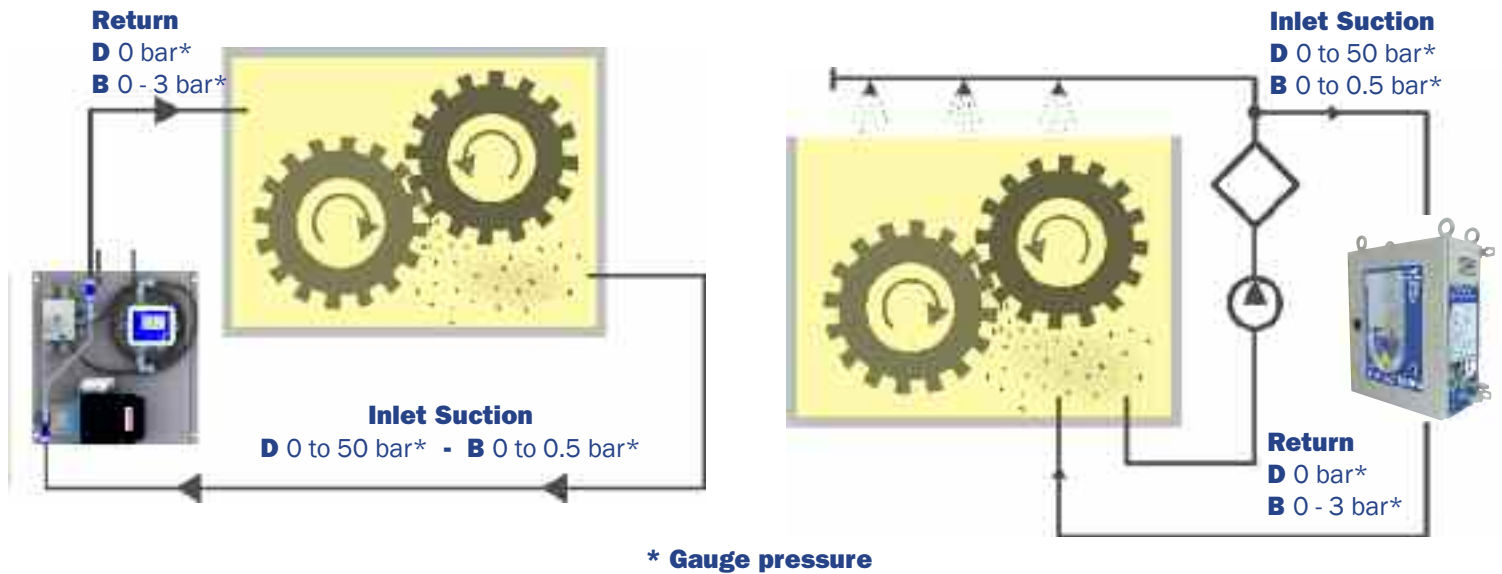


## Technical data

	Cabinet Version	Plate version
<b>In - Line contamination monitor</b>	ICM with keypad and backlit display and relays	ICM with keypad and backlit display and relays
<b>Particle Sizing</b>	As ICM: >4, 6, 14, 21, 25, 38, 50, 70 µm(c) to ISO 4406 1999 Standard	As ICM: >4, 6, 14, 21, 25, 38, 50, 70 µm(c) to ISO 4406 1999 Standard
<b>Moisture Sensing (RH%)</b>	Available with or without moisture sensor	Available with or without moisture sensor
<b>Communication Protocols</b>	PLC compatible. RS485, RS232 & CanBus (J1939 typical)	PLC compatible. RS485, RS232 & CanBus (J1939 typical)
<b>Software</b>	LPAView (Supplied with product)	LPAView (Supplied with product)
<b>Re-calibration</b>	Defined by customer Quality Controls recommended 1 year	Defined by customer Quality Controls recommended 1 year
<b>CONTROL, COMMUNICATION &amp; INTERFACE</b>		
<b>On/off &amp; Stop/Start signals (Remote)</b>	Start/Stop signalling & test set up user	Start/Stop signalling & test set up user
<b>Circuit Flow Rate</b>	40 ml/min to 400 ml/min	40 ml/min to 400 ml/min
<b>Hydraulic Hoses (External)</b>	Customer to source their own	Customer to source their own
<b>Electric Motor</b>	110V AC, 230V AC, 415V AC, 690V AC	110V AC, 230V AC, 415V AC, 690V AC
<b>Weight</b>	21 Kg.	13 Kg.
<b>Lifting Eyes</b>	Yes x 4 DIN 580, WLL 3400N at 45° (~340K)	Yes x 2 WLL 16000N (~1600Kg)
<b>USBi Comms Junction Box</b>	See USBi user guide	No junction box
<b>OPERATIONAL PARAMETERS</b>		
<b>Fluid Compatibility/Corrosion Resistance</b>	Hydrocarbon based & Synthetic hydraulic fluids	Hydrocarbon based & Synthetic hydraulic
<b>Min Inlet Pressure</b>	Positive pressure	Positive pressure
<b>Max Inlet Pressure</b>	50 bar gauge pressure - pump option dependant	50 bar gauge pressure - pump option dependant
<b>Min. Outlet Pressure</b>	Atmosphere (1.013mbar at sea level)	Atmosphere (1.013mbar at sea level)
<b>Max Outlet Pressure</b>	3 bar (gauge pressure)	3 bar (gauge pressure)
<b>Max. Fluid Temperature (Continuous)</b>	80 °C	80 °C
<b>Min. Fluid Temperature (Continuous)</b>	Viscosity dependant. Not greater than 1000cSt	Viscosity dependant. Not greater than 1000cSt
<b>Min Temperature (Start Up)</b>	Viscosity dependant. Not greater than 1000 cSt≈ 25 °C ISO VG 320	Viscosity dependant. Not greater than 1000 cSt≈ 25 °C ISO VG 320
<b>Max. Viscosity</b>	1000 cSt	1000 cSt
<b>Min. Viscosity</b>	10 cSt	10 cSt
<b>Min. Start Up Ambient Temperature</b>	-40 °C	-40 °C
<b>Max Start Up Ambient Temperature</b>	+50 °C	+50 °C
<b>Power Consumption</b>	0.25kW max	0.25kW max
<b>Warranty</b>	See user guide	See user guide

# ACMU - Auxiliary Contamination Monitoring Unit

## Installation Guidance



- ◆ Priming of pump prior to start up recommended
- ◆ Install below level of head of tank
- ◆ Keep hose length, inlet and outlet, to minimum lengths
- ◆ Max 1000cSt

## Ordering information

**Example:**

1	2	3	4	5	6
ACMU	W	D	C	S	230V

### 1 - ACMU

### 2 - Moisture Sensor (RH%)

<b>O</b>	Without moisture and temperature sensor
<b>W</b>	With moisture RH% and temperature sensor

### 3 - Pump option

<b>D</b>	Up to 50 bar inlet (gauge pressure), atmosphere outlet
<b>B</b>	0.5 (gauge pressure) {1 bar max inlet}, 3 bar (gauge pressure) max outlet

### 4 - Type

<b>C</b>	Cabinet version (supplied with 5 metre communication lead)
<b>P</b>	Plate mounted version (supplied with ICM 3 metre cable)

### 5 - Version

<b>S</b>	Standard version
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### 6 - Motor option

<b>110 v</b>	110v Motor (Dual frequency 50Hz/60Hz, single phase)
<b>230 v</b>	230v Motor (3 phase)
<b>400 v</b>	400v Motor (3 phase)
<b>690 v</b>	690v Motor (3 phase)