

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

In - Line contamination monitor	ICM with keypad and backlit display and relays	ICM with keypad and backlit display and relays
Particle Sizing	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
Moisture Sensing (RH%)	Available with or without moisture sensor	Available with or without moisture sensor
Communication Protocols	PLC compatible. RS485, RS232 & CanBus (J1939 typical)	PLC compatible. RS485, RS232 & CanBus (J1939 typical)
Software	LPAView (Supplied with product)	LPAView (Supplied with product)
Re-calibration	Defined by customer Quality Controls recommended 1 year	Defined by customer Quality Controls recommended 1 year

CONTROL, COMMUNICATION & INTERFACE

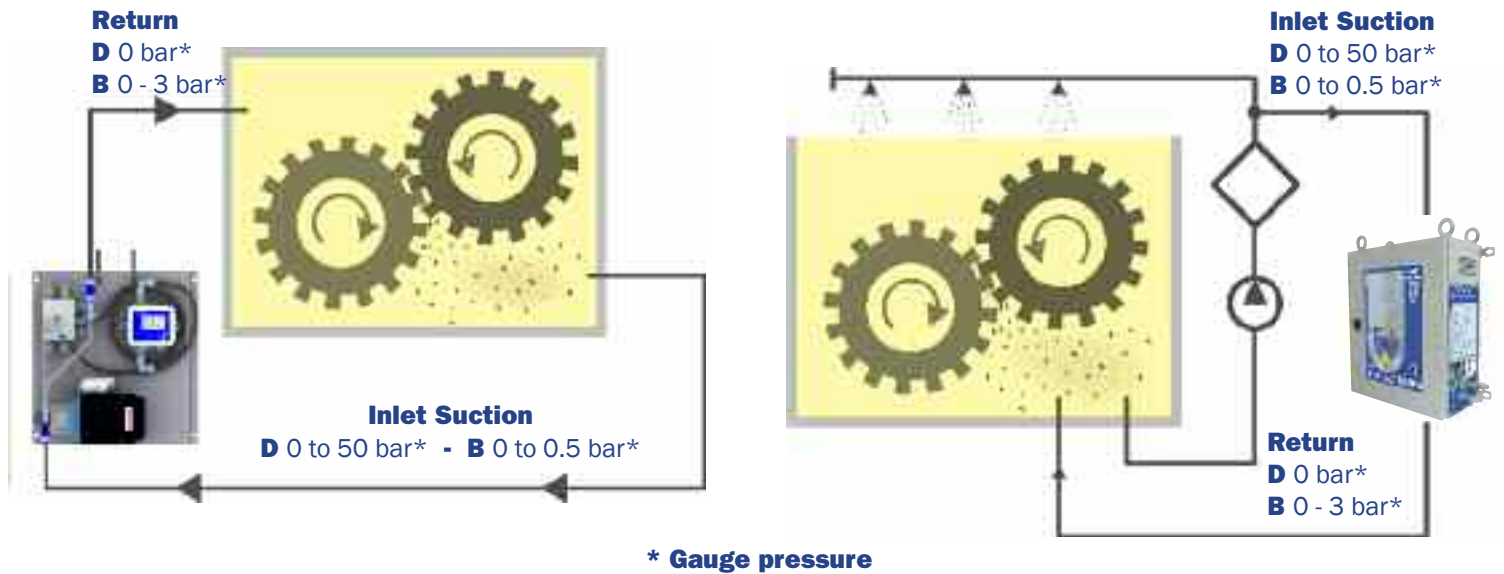
On/off & Stop/Start signals (Remote)	Start/Stop signalling & test set up user	Start/Stop signalling & test set up user
Circuit Flow Rate	40 ml/min to 400 ml/min	40 ml/min to 400 ml/min
Hydraulic Hoses (External)	Customer to source their own	Customer to source their own
Electric Motor	110V AC, 230V AC, 415V AC, 690V AC	110V AC, 230V AC, 415V AC, 690V AC
Weight	21 Kg.	13 Kg.
Lifting Eyes	Yes x 4 DIN 580, WLL 3400N at 45° (~340K)	Yes x 2 WLL 16000N (~1600Kg)
USBi Comms Junction Box	See USBi user guide	No junction box

OPERATIONAL PARAMETERS

Fluid Compatibility/Corrosion Resistance	Hydrocarbon based & Synthetic hydraulic fluids	Hydrocarbon based & Synthetic hydraulic
Min Inlet Pressure	Positive pressure	Positive pressure
Max Inlet Pressure	50 bar gauge pressure - pump option dependant	50 bar gauge pressure - pump option dependant
Min. Outlet Pressure	Atmosphere (1.013mbar at sea level)	Atmosphere (1.013mbar at sea level)
Max Outlet Pressure	3 bar (gauge pressure)	3 bar (gauge pressure)
Max. Fluid Temperature (Continuous)	80 °C	80 °C
Min. Fluid Temperature (Continuous)	Viscosity dependant. Not greater than 1000cSt	Viscosity dependant. Not greater than 1000cSt
Min Temperature (Start Up)	Viscosity dependant. Not greater than 1000 cSt≈ 25 °C ISO VG 320	Viscosity dependant. Not greater than 1000 cSt≈ 25 °C ISO VG 320
Max. Viscosity	1000 cSt	1000 cSt
Min. Viscosity	10 cSt	10 cSt
Min. Start Up Ambient Temperature	-40 °C	-40 °C
Max Start Up Ambient Temperature	+50 °C	+50 °C
Power Consumption	0.25kW max	0.25kW max
Warranty	See user guide	See user guide

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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%)

- | | |
|---|--|
| 0 | Without moisture and temperature sensor |
| W | With moisture RH% and temperature sensor |

3 - Pump option

- | | |
|---|---|
| D | Up to 50 bar inlet (gauge pressure), atmosphere outlet |
| B | 0.5 (gauge pressure) {1 bar max inlet}, 3 bar (gauge pressure) max outlet |

4 - Type

- | | |
|---|--|
| C | Cabinet version (supplied with 5 metre communication lead) |
| P | Plate mounted version (supplied with ICM 3 metre cable) |

5 - Version

- | | |
|---|------------------|
| S | Standard version |
|---|------------------|

6 - Motor option

- | | |
|-------|---|
| 110 v | 110v Motor (Dual frequency 50Hz/60Hz, single phase) |
| 230 v | 230v Motor (3 phase) |
| 400 v | 400v Motor (3 phase) |
| 690 v | 690v Motor (3 phase) |