ACMU

Auxiliary Contamination Monitoring Unit

Description

Automatic Particle Counters

Auxiliary Contamination Monitoring Unit

Incorporating the ICM, 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

Available versions:
- Cabinet version
- Plate version

Scope of supply
- 1 x ACMU (Specific model will be as per ordered item, 1/4"BSP inlet/outlet ports as standard)
- 1 x 3m Twisted Pair Cable Assembly (Plate version)
- 1 x 5m length twisted pair cable (Cabinet version)
- 2 x 1/4"BSP to 7/16 JIC coupling
- 1 x Hard copy Quick start/wiring installation guide
- 1 x Hard copy Fluid Condition Handbook
- 1 x Digital copy of user guides/software/drivers
- 1 x Hard copy of calibration certificate

See Accessories at page 77.

Hydraulic Hoses (External)
Customer to source their own

Re-calibration
Defined by customer Quality Controls recommended 1 year

Closed Cabinet version
Front/Right facing view

Open Cabinet version
Front facing view

Plate version
Front facing view

Technical data

In-Line contamination monitor
ICM with keypad and backlit display and relays

Particle Sizing
As ICM: >4, 6, 14, 21, 25, 38, 50, 70 $\mu m_{(c)}$ to ISO 4406:2017 Standard

Fluid Compatibility / Corrosion Resistance
Hydrocarbon based & Synthetic hydraulic fluids

Circuit Flow Rate
40 ml/min to 400 ml/min

Viscosity range
Max. 1000 cSt - Min. 10 cSt

Communication Options
PLC compatible. RS485, RS232 & CanBus (J1939 typical)

Fluid Temperature (Start Up)
Minimum: Viscosity dependant. Not greater than 1000 cSt
Maximum: +80 °C

Fluid Temperature (Continuous)
Minimum: Viscosity dependant. Not greater than 1000 cSt
Maximum: +80 °C

Ambient Temperature (Start Up)
From -40°C to +50 °C

Inlet Pressure
Min. Positive pressure - Max. 50 bar gauge pressure (pump option dependant)

Outlet Pressure
Min. Atmosphere (1013mbar at sea level) - Max. 3 bar (gauge pressure)

Moisture Sensing (RH%)
Available with or without moisture sensor

Weight
21 Kg (cabinet version) - 13 Kg (plate version)

Electric Motor
110V AC, 230V AC, 415V AC, 690V AC

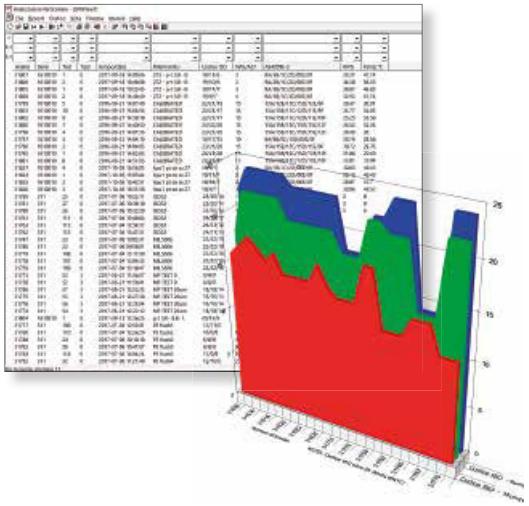
Power Consumption
0.25 kW max

USBi Comms Junction Box
See USBi user guide - cabinet version
No junction box - plate version
Industry 4.0 ready with appropriate accessory product

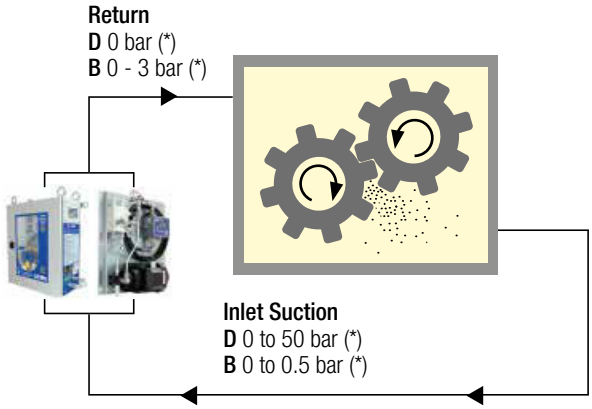
LPA View Software

The LPA View software is used with the LPA2, CML2 and ICM particle counters. When connected to LPA View, MP Filtri CMP's can transfer results in realtime, or alternatively historical results can be downloaded from the CMP's inbuiltmemory.

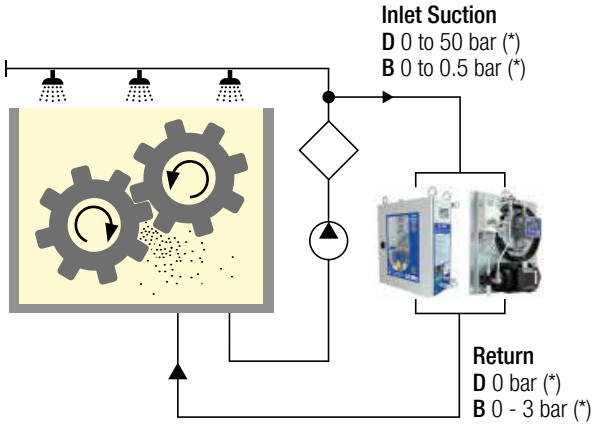
- Runs on Windows 2000, XP, Vista and Windows 10.
- Full adjustment & control of product settings, test times and alarms
- Easy test report generation
- Trend analysis
- Graphical display options
- Universal format across our contamination monitoring product range



Type of applications



LIFTING EYES: Yes x 4 DIN 580, WLL 3400N at 45° (~340K)



LIFTING EYES: Yes x 2 WLL 16000N (~1600Kg)

(*) Gauge pressure

Designation & Ordering code

AUTOMATIC PARTICLE COUNTER ACMU

Configuration example: ACMU | W | D | C | S | 230V

Series
ACMU

Moisture Sensor (RH%)

0	Without moisture and temperature sensor
W	With moisture and temperature sensor

Pressure Sensor

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

Type

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

Version

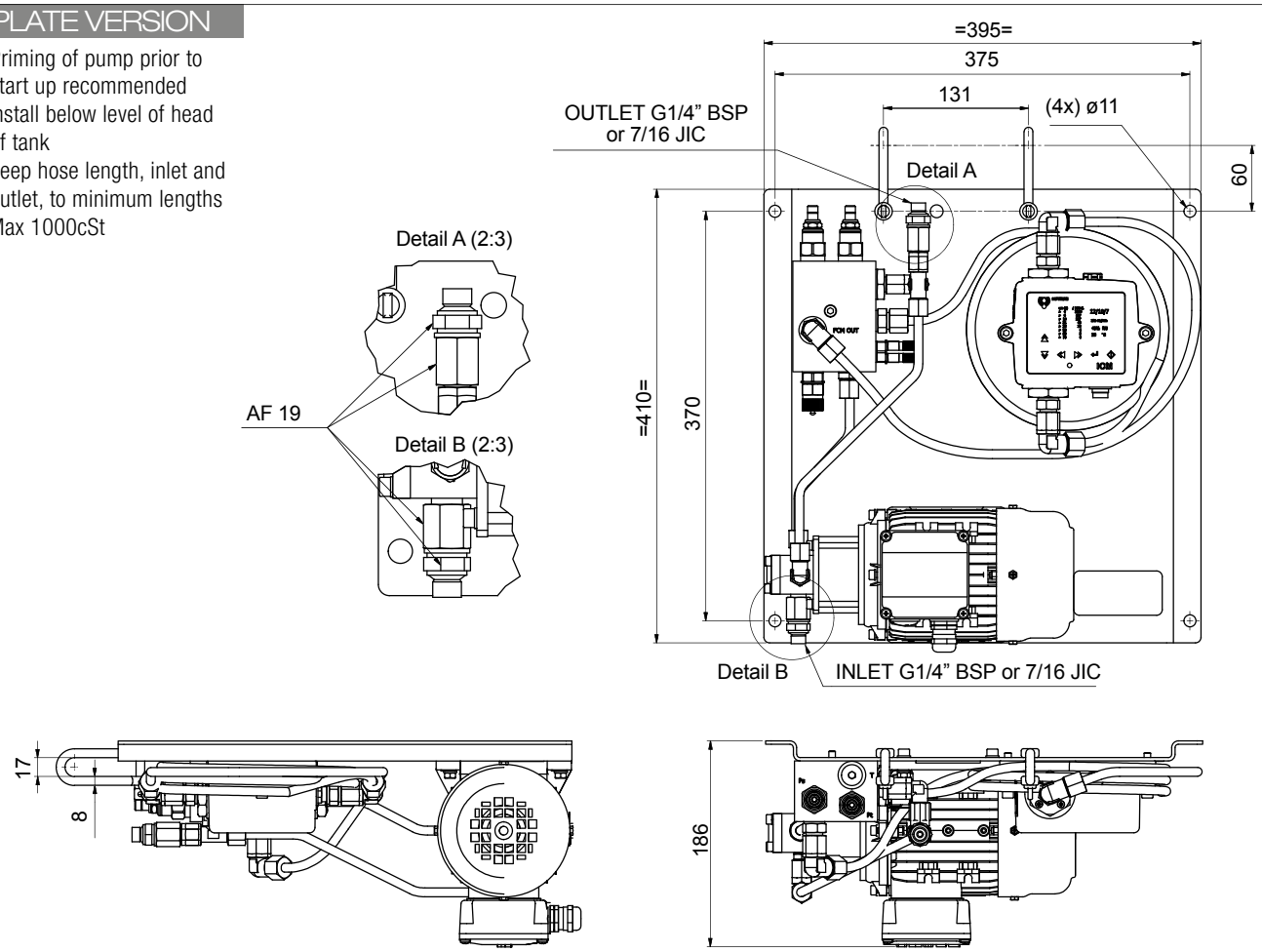
S	Standard version

Motor option

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

PLATE VERSION

- 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



CABIN VERSION