

## HYDAC INTERNATIONAL



### FluidControl Unit FCU 2000 series 19" panel mounted models

#### Description

The FluidControl Unit FCU 2000 for 19" panel mounting is designed to measure solid particle contamination in hydraulic systems and lubrication systems.

The measured values are recorded by means of infrared technology and output in accordance with ISO 4406, SAE 4059 and NAS 1638.

#### Applications

- Hydraulic systems and lubrication systems

#### Advantages

- Cleanliness classes in accordance with ISO 4406, SAE 4059 and NAS 1638
- Data output on display or connection to a PC
- RS232 or RS485 interface

#### Technical details

Continuous display of measured values with display screen (LCD)	
Self diagnostics	Continuous with error indication on display (LCD)
Measurement range (calibrated)	ISO 12/10/9 to 23/21/18 Instrument is calibrated within this range. Displays up to class ISO 25/23/21.
Data memory (battery-backed)	3000 measurements
Operating pressure: Pressure port Return port	INLET: 1 to 350 bar, with clean filter element OUTLET: max. 3 bar
Ports	INLET: Minimesse test coupling type 1604 OUTLET: male coupling DN 7
Measurement flow rate	50 to 150 ml/min
Return flow rate	50 to 800 ml/min (depending on the pressure)
Permitted viscosity range	1 to 1000 mm <sup>2</sup> /s
Fluid temperature range	0 to 70°C
Power consumption	25 watts max.
Built-in printer	Dot-matrix printer
Serial interface	Standard: RS 232 Optional: RS 485
3 relay outputs	1x "ready" relay 2x "limit" relays
Ambient temperature range:	0 to 55 °C
Storage temperature range	-20 to 85°C
Relative humidity	Max. 90%, non-condensing
Protection class	II (double insulated)
IP class	IP40
Weight	≈ 16 kg

## Model code

	FCU	2	1	3	0	-	1	-	M	/	-BUS
<b>Type</b>											
FCU = FluidControl Unit											
<b>Resolution</b>											
2 = 4 particle size channels											
<b>ISO code format</b>											
1 = ISO 4406 : 1987; NAS 1638 / >2 µm >5 µm >15 µm >25 µm											
2 = ISO 4406 : 1999 ; SAE AS 4059 (D) / >4 µm <sub>(c)</sub> >6 µm <sub>(c)</sub> >14 µm <sub>(c)</sub> >21 µm <sub>(c)</sub>											
<b>Housing</b>											
3 = for 19" panel mounting											
<b>Fluids</b>											
0 = for standard mineral oils											
1 = for phosphate esters (HFD-R)											
<b>Options</b>											
1 = standard, without options											
<b>Supply voltage</b>											
K = 120VAC / 60 Hz / 1 phase, USA/CDN											
M = 230VAC / 50 Hz / 1 phase, Europe											
N = 240VAC / 50 Hz / 1 phase, UK											
O = 240VAC / 50 Hz / 1 phase, Australia											
P = 100VAC / 50 Hz / 1 phase, Japan											
<b>Supplementary details</b>											
No details: standard											
-BUS = RS 485 interface instead of RS 232											

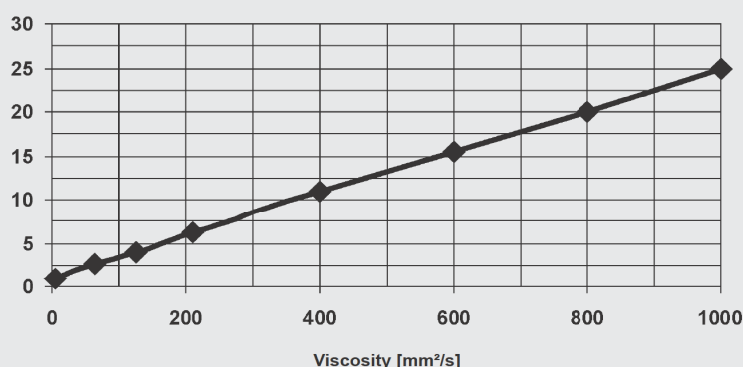
## Scope of delivery

- FCU
- Power supply cable
- Operating instructions
- Calibration certificate
- PC software package FluMoS Light

## Equipment

- Reservoir Extraction Unit REU
- Inlet and outlet hoses 5m long
- PC software package FluMoS Professional

## Pressure required at high-pressure port\*



\*For a flow rate of 100 ml/min, flow control valve fully open, new filter element

## NOTE

The information in this brochure relates to the operating conditions and applications described.

For applications and/or operating conditions not described please contact the relevant technical department.

Subject to technical modifications.