



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: Minimes 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 ² /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

Type

FCU = FluidControl Unit

Resolution

2 = 4 particle size channels

ISO code format

1 = ISO 4406 : 1987; NAS 1638 / >2 μm
>5 μm >15 μm >25 μm

2 = ISO 4406 : 1999 ; SAE AS 4059 (D) /
>4 $\mu\text{m}_{(c)}$ >6 $\mu\text{m}_{(c)}$ >14 $\mu\text{m}_{(c)}$ >21 $\mu\text{m}_{(c)}$

Housing

3 = for 19" panel mounting

Fluids

0 = for standard mineral oils

1 = for phosphate esters (HFD-R)

Options

1 = standard, without options

Supply voltage

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

Supplementary details

No details: standard

-BUS = RS 485 interface instead of RS 232

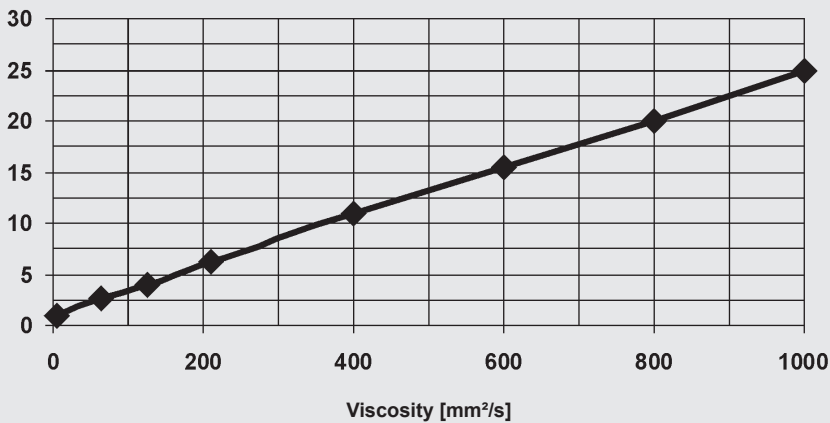
Scope of delivery

- 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.

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