GYDAD INTERNATIONAL



FCU 2210-4

FCU 2210-1

Description

The Fluid Control Unit FCU 2000 is a portable service instrument for measuring particle contamination in hydraulic and lubrication systems.

The values are measured using infrared technology and are given according to ISO 4406, SAE 4059 and NAS 1638 classifications.

Applications

- Hydraulic and lubrication systems
- Servicing
- Test rigs
- Bottle sampling analysis
- Tank analysis

Advantages

- Robust design
- Cleanliness classes according to ISO 4406, SAE 4059 and NAS 1638
- Integrated graphics-capable printer
- Data output on display or via connection to a PC
- RS232 or RS485 interface

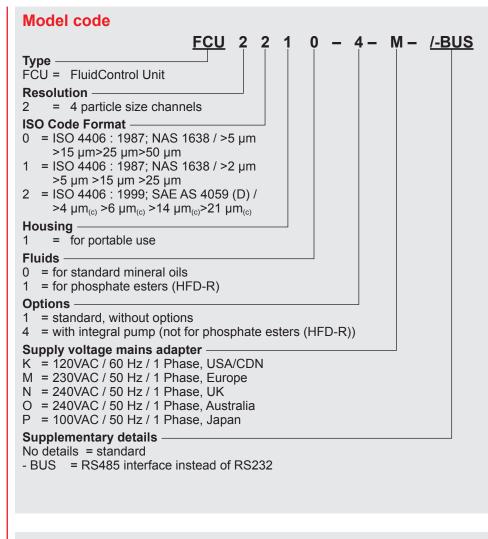
FluidControl Unit

FCU 2000 Series

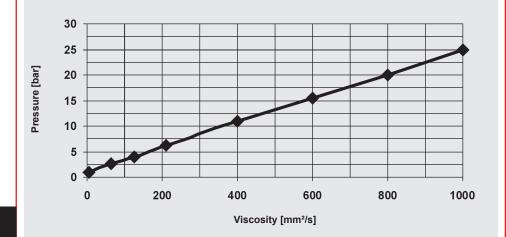
| Technical specifications

	FCU 2xxx -1	FCU 2xxx -4
Continuous display of n	neasured values via display (l	_CD)
Self-diagnostics	Continuous with error indication on LCD	
Measurement range (calibrated)	ISO 12/10/9 23/21/18 The instrument is calibrated within this range. Will display up to class ISO 25/23/21.	
Data memory (battery back-up)	3000 measurements	
Operating pressure: Pressure inlet Return line outlet	INLET: 1 - 350 bar, with clean filter element OUTLET: max. 3 bar	
Ports	INLET (Pressure): Minimess test coupling type 1604; the FCU can be connected to standard 1620-type connectors using the test hose supplied OUTLET: male coupling DN 7 INLET (suction): male shut-off coupling DN 6.4	
Measurement flow rate	50 - 150 ml/min	
Total flow rate	50 800 ml/min (depending on pressure)	
Permitted viscosity range	1 1000 mm²/s	1 1000 mm²/s 1 150 mm²/s (suction port, continuous duty) 150 350 mm²/s (suction port, short-term duty)
Fluid temperature range	0 +70 °C	
Supply voltage FCU	24 VDC, ± 25%	
Power consumption	25 Watt max.	100 Watt max.
Built-in printer	Dot-matrix printer	
Serial interface	Standard: RS232 Optional: RS485	
Ambient temperature range	0 +55 °C	
Storage temperature range	-20 +85 °C	
Relative humidity	max. 90%, non-condensing	
Protection rating	III (safety extra-low voltage)	
Protection class	IP40	
Weight	≈ 11.3 kg	≈ 15.8 kg
Operating time using battery	≈ 6 hours	≈ 6 hours without pump ≈ 2 hours with pump

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Pressure required at FCU high-pressure port*



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

Items supplied

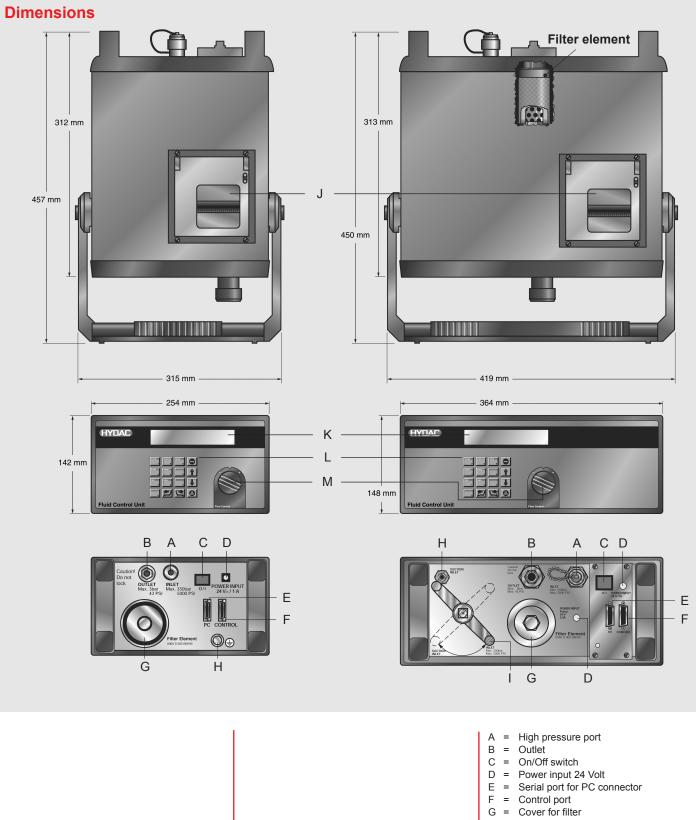
- FCU
- Power supply adapter
- High pressure inlet hose DN 4 (2m long)
- Low pressure outlet hose DN 7 (2m long)
- Operating manual
- Calibration certificate
- PC software package CoCoS Light
- Connection cable FCU / PC

Additional for FCU 2xxx - 4

- Power supply adapter for integrated pump
- Suction hose DN 6 (1m long)
- Suction hose DN 6 (0.2m long)

Accessories

- Reservoir Extraction Unit REU
- Inlet and outlet hoses 5 m length
- PC software package CoCoS
 Professional
- Transport case (aluminium)



- H = Suction port Change-over ball valve high pressure/suction port
- J = Dot-matrix printer
- K = LCD
- L = Keypad
- M = Flow control valve

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Note

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

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

Subject to technical modifications.

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HYDAD FILTER SYSTEMS GMBH

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