

# HYDAC INTERNATIONAL



# FluidControl Unit FCU 8000 series Portable laser particle counter

#### Description

The Fluid Control Unit FCU 8000 is designed to measure particle contamination in hydraulic and lubrication systems. It can be used in the field as a portable laser particle measurement device or in connection with the BottleSampling Unit as a laboratory device for the investigation of oil samples.

#### **Applications**

- Field use
- In labs or at service bases

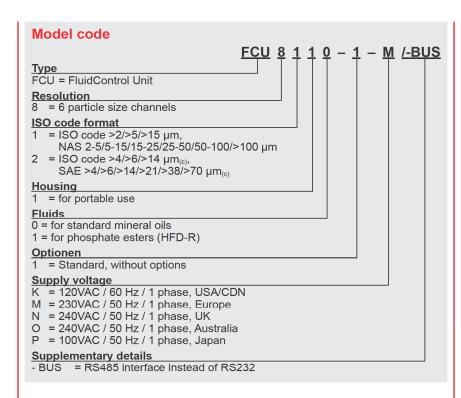
#### **Advantages**

- Evaluation and storage of the measurement data
- Cleanliness classes in accordance with ISO 4406, SAE 4059 and NAS 1638
- Integrated, graphics-capable printer
- RS232 or RS485 interface for data output
- Easy to operate

### Technical details

Continuous display of measured values with display screen (LCD)	
Self diagnostics	Continuous with error indication on display (LCD)
Measurement range (calibrated, depending on version)	NAS 0 to 12 / ISO 0/0/0 to 23/21/18 / SAE 0 to 12 Unit is calibrated within this range. Will display up to class NAS 15 / ISO 25/23/21 / SAE 15
Data memory (battery back-up)	3000 measurements
Operating pressure: Pressure inlet Return port connection	INLET: 1 - 350 bar, with clean filter element OUTLET: max. 3 bar
Ports (rear side)	INLET: Minimess test coupling type 1620 OUTLET: male coupling DN 7
Sensor flow rate	20 to 80 ml/min
Return flow rate	20 to 800 ml/min (depending on the pressure)
Permitted viscosity range	1 to 1000 mm²/s
Fluid temperature range	0 to +70°C
Mains voltage	24 V DC, ± 25%
Power consumption	25 watts max.
Operating time with rechargeable batteries	≈ 6 hours
Integral printer	Dot-matrix printer
Serial interface	Standard: RS232 Option: RS485
Ambient temperature range:	0 to +55°C
Storage temperature range	-20 to +85°C
Relative humidity	Max. 90%, non-condensing
Protection class	III (safety extra-low voltage)
IP class	IP40
Weight	≈ 14 kg

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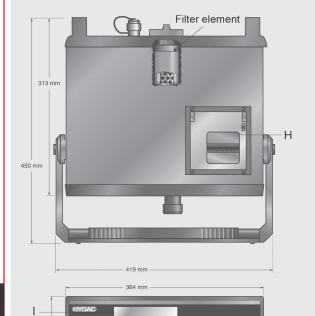


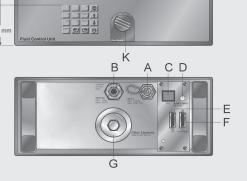
## Items supplied

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

#### **Accessories**

- Reservoir Extraction Unit REU
- Inlet and outlet hoses 5 m long
- Bottle Sampling Unit BSU
- Aluminium transport case
- PC software package FluMoS Professional





- A = High pressure port
- B = Outlet
- C = On/off switch
- D = Power input 24 volts E = Serial port for

- F = Control port
- G = Cover for filter J = Dot-matrix printer
- K = LCD
- = Keypad
- M = Flow control valve

### **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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