

# CONTAMINATION MONITORS

## SMU 1200 Series

Sensor Monitoring Unit



### Description

The Sensor Monitoring Unit SMU 1200 is a display unit for HYDAC fluid sensors and is designed to display and store measured data. The following combinations of fluid sensors can be connected directly:

- Contamination Sensor CS 1000 & Aqua Sensor AS 1000
- Metallic Contamination Sensor MCS 1000 & Aqua Sensor AS 1000

### Advantages

- Data is stored in the SMU with a date and time stamp.
- Simple installation parallel to the customer system (*HYDAC Sensor Interface HSI for SMU 1200, transfer of the sensor's own analog and switching outputs*).
- Simple installation using the magnetic holder or DIN rails.
- Plug & Work unit including the 16.4' (5m) connection cable required for direct connection of the sensors (*sensor connections via M12x1 male connectors, no programming necessary*).
- Measured values can be read from the standard USB memory stick supplied via the USB master port.
- Simple data processing and data evaluation using MS-Excel or HYDAC FluidMonitoring Software FluMoS (*'light version' available as freeware at www.hydac.com*).
- Program restarts independently once voltage is restored; no loss of measured data.

### Technical Specifications

Mounting position	Optional
Self-diagnostics	Continuously with error indication on display
Display	LED, 6/4/4-digit, each with 17 segments
Rough handling (to IEC/EN 60068-2-31)	Drop height 2" (50 mm)
Ambient temperature	32°F – 13°F (0 °C to +55 °C)
Storage temperature range	-40°F – 176°F (-40 °C to 80 °C)
Relative humidity	Maximum 95%, non-condensing
Weight	≈ 2.2 lb (≈ 1 kg)
<b>Electrical Data</b>	
Supply voltage	12 to 24 V DC (±10%) The SMU must not be used with vehicle supply systems without load dump protection of maximum 30 V DC.
Residual ripple	≤ 5%
Power consumption	15 Watt, 1.25 A max.
Accuracy of the real-time clock	± 5 s/day / ± 0.5 h/year
Clock buffer	≈ 20 years
Protection rating	III (safety extra-low voltage)
Protection class	IP 67

## Model Code

SMU 1 2 6 0 - TU - 00 / 000

<b>Type</b>	SMU						1		2		6		0		- TU -		00 / 000	
SMU	= Sensor Monitoring Unit																	
<b>Series</b>	1						1000 Series											
<b>Data input</b>	2						Digital											
<b>Interface</b>	6						HSI + USB Master											
	7						Ethernet + USB Master											
<b>Application</b>	0						Standard											
<b>Supply voltage</b>	TU						12 to 24 V DC											
<b>Sensor combination</b>	00						CS 1000		A		B		AS 1000					
	10						MCS 1000						AS 1000					
<b>Customer modification number</b>	000						Customer modification number											

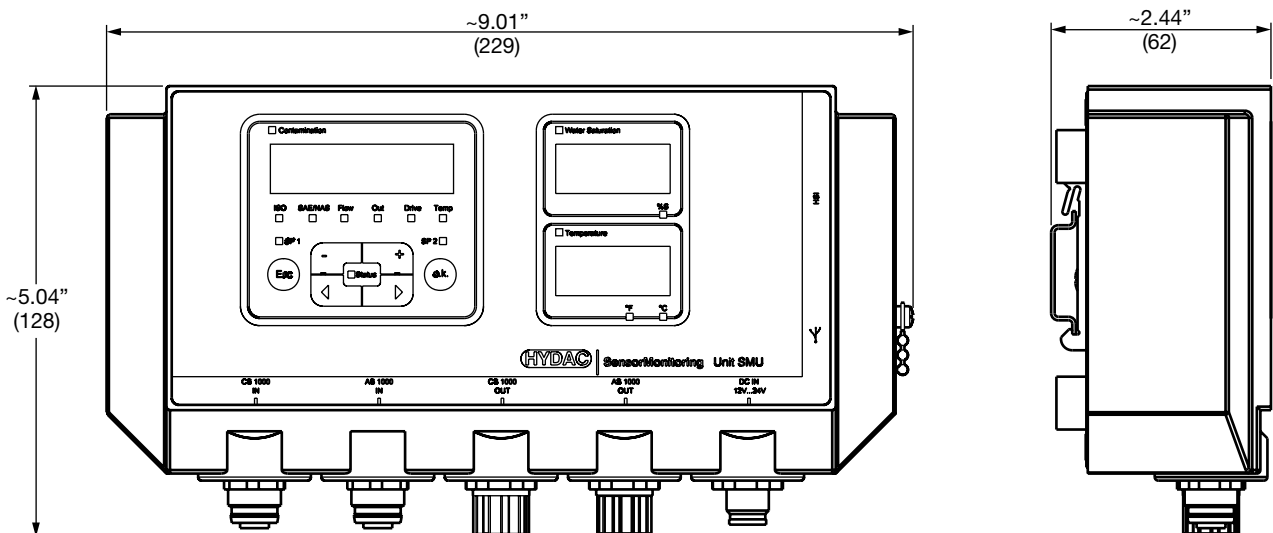
### Items supplied

- 1 SMU 1200 series
- 1 USB memory stick
- 1 connection cable 5 pole with flying leads for power supply, L = 16.4' (5m)
- 2 connection cables appropriate to the sensor combination, L = 16.4' (5m)
- 1 FluMoS light CD
- 1 User manual
- 1 DIN rail, L = 7.87" (20 cm)

## Accessories

Power supply PS5,  
100-240 V AC / 50-60 Hz / 1.1 A -> 24 V DC / 1000 mA,  
Cable length = 3.28' (1.8 m) PN: 3399939

## Dimensions



Dimensions are for general information only, all critical dimensions should be verified by requesting a certified print.