YDAC INTERNATIONAL



SensorMonitoring Unit SMU 1200 series

Description

The SensorMonitoring Unit SMU1200 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:

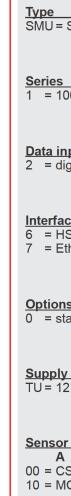
- ContaminationSensor CS1000 and AquaSensor AS1000 or HLB1400
- MetallicContamination Sensor MCS1000 and AquaSensor AS1000 or HLB1400

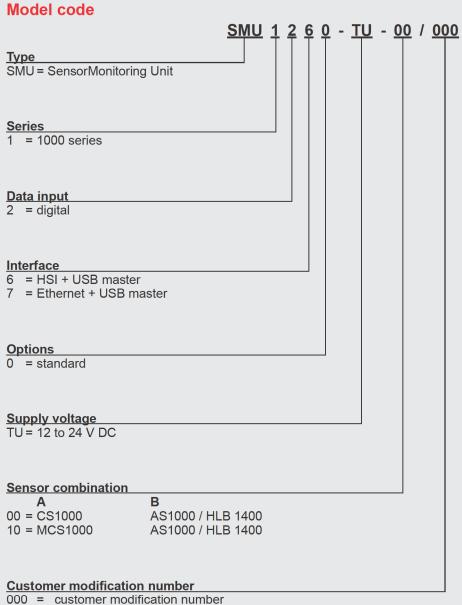
Advantages

- Simple installation in parallel to the customer system (Hydac Sensor Interface HSI for SMU1200, transfer of the sensor's own analogue and switching outputs)
- Simple installation using the magnetic holder or DIN rails
- High protection class IP67. Installation in a switch cabinet is not necessary
- Plug & Work unit including the 5m connection cable required for direct connection of the sensors (sensor connections via M12x1 male connectors, no programming necessary)
- Depiction of the measurement data on large display screen
- Simple keypad operation
- Data is stored in the SMU with a date and time stamp
- Measured values can be read from the standard USB memory stick supplied or via the USB master port
- Simple data processing and data evaluation using MS-Excel or Hydac FluidMonitoring Software FluMoS ('Light Version' available as freeware from www.hydac.com)
- Program restarts independently once voltage is restored; no loss of measured data

Technical details

| General data | |
|------------------------------------|---|
| Mounting position | No orientation restrictions |
| Self diagnostics | Continuously with error indication on display |
| Display | LED, 6/4/4-digit, each with 17 segments |
| Accuracy of the real-time clock | ± 5 s/day / ± 0.5 h/year |
| Clock buffer | ≈ 20 years |
| Drop height (to IEC/EN 60068-2-31) | Fall height 50 mm |
| Ambient temperature | 0 °C to 55 °C |
| Storage temperature range | -40 °C to 80 °C |
| Relative humidity | Maximum 95 %, non-condensing |
| IP class | IP 67 |
| Weight | ≈ 1 kg |
| Electrical data | |
| Supply voltage | 12 to 24 V DC (±20 %), residual ripple ≤ 10 % The SMU must not be used with on-board supply systems without load dump protection of maximum 30 V DC |
| Max. power and current consumption | 15 watts; 1250 mA |
| Protection class | III (safety extra-low voltage) |
| Interfaces | |
| USB master port | USB Type A |
| HSI (HYDAC Sensor Interface) | 1-wire half duplex |
| Ethernet interface | or 10 Base-T / 100 Base-Tx Protocol: - HSI TCP/IP (port 49322) - Modbus TCP (port 502) |
| Internal measurement data memory | |
| Measurement interval 60 s | > 42 days |
| Measurement interval 60 min | > 2530 days |





Scope of delivery

- 1x SMU 1200 series
- 1x USB memory stick
- 1 x connection cable 5 pole with flying leads for voltage supply,
- 2 x connection cables according to the combination of measurement sensors, L = 5 m
- 1x FluMoS Light CD
- 1 x operating manual
- 1 x DIN rail, L = 20 cm to DIN EN 60715 TH35

Equipment

- Power supply unit PS5, 100-240 V AC / 50-60 Hz / $1.1 \text{ A} \rightarrow 24 \text{ V DC} / 1000 \text{ mA}$. cable length = 1.8 m, part no.: 3399939

Connection cable -**Ethernet**

- ZBE 45-05, length 5 m $M12x1 \rightarrow RJ45$, patch 3346100
- ZBE 45-10, length 10 m M12x1 → RJ45, patch 3346101

DIMENSIONS

