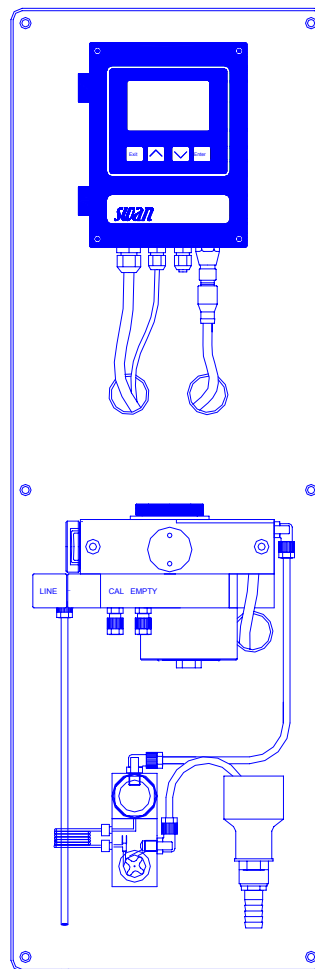


Nephelometric system for the automatic and continuous measurement of low level turbidity in pure and ultra pure water

**Monitor AMI Turbitrace**

- High precision nephelometer complying with ISO 7027 (EN 27027, DIN 38404)
- Measurement range: 0.000 - 100.0 FNU  
Automatic range switching.
- Precision: ± 0.001 FNU or 1% of reading.
- Response time: typically T90 < 15 sec (after sample entry at 10 l/h)
- Programmable automatic zero point measurement for drift compensation by integrated sub-micron particle filter.
- Complete system including transmitter, turbidity sensor, flow cell with integrated sub-micron filter, flow controller and flow sensor. Installed on panel for immediate use.
- Valve and connector for slope calibration with formazine according to ISO 7027.
- Pressure tight sample system up to 10 bar avoids outgassing of sample.
- Transmitter with large backlit graphic display for the reading of measuring value, flow and operating status. Full text menu driven user interface. Storage of calibration history.
- Two signal outputs for measuring values or as control outputs.
- Alarm contact as summary alarm indication for programmable alarm values and for instrument faults. Alarm functions include: "Flow out of range", "Cleaning required" and "Replace filter".
- Two potential-free contacts programmable as limit switches or PID-controllers.
- Input for potential-free contact with programmable function.



<b>Order scheme</b>	<b>Monitor AMI Turbitrace</b>	<b>A - 2 5 . 4 1</b>	<b>.</b>	<b>5</b>		<b>0</b>
<b>Power supply:</b>	85-265 VAC, 47-63 Hz		↑		↑	
	24 VDC, direct current .....		2			
<b>Interface option:</b>	None					0
	PROFIBUS DP .....					2

**Analytical System**

Turbidimeter with flow controller and programmable automatic zero point measurement for drift compensation by integrated sub-micron particle filter.

Measurement range: 0.000 - 100.0 FNU  
with automatic range switching  
Precision: ±0.001 FNU or 1% of reading  
Operating temperature: 1 - 40 °C  
Sample flow: 5 - 20 l/h  
Sample pressure: 1 - 10 bar  
Sample inlet: Serto connection  
for tube 6 mm  
Sample outlet: Pressure free outlet  
(funnel with connection for flexible tube  
15 x 20 mm)

**AMI Transmitter**

Case electronics: Aluminum, IP 66  
Dimensions: 180 x 140 x 70 mm  
Display: backlit LCD, 75 mm x 45 mm  
Electrical connectors: screw clamps  
Ambient temperature: -15 to +50 °C  
Limit range of operation: -25 to +65 °C  
Storage and transport: -30 to +85 °C  
Humidity: 10 - 90% relative  
non condensing

**Power rating**

Voltage: 85 - 265 VAC, 47 - 63 Hz  
or 24 VDC, isolated ±15%  
Power consumption: max. 20 VA

**Operation**

Easy operation menus for Messages, Diagnostics, Maintenance, Operation and Installation, password protected. Display of process value, sample flow, alarm status and time during operation.

**Safety**

No data loss after power failure, all data is saved in non-volatile memory. Over voltage protection of in- and outputs. Galvanic separation of measuring in- puts and signal outputs.

**Monitoring of case temperature**

Alarm if temperature is higher than +65 °C or lower than -25 °C

**1 Alarm relay**

Potential-free contact for summary alarm indication for programmable alarm values and instrument faults  
Max. load: 1A / 250 VAC

**1 Input**

For potential-free contact, programmable as hold or remote-off.

**2 Relay outputs**

Potential-free contacts programmable as limit switches for measuring values, controllers or sample flow alarm.  
Max. load: 1A / 250 VAC

**2 Signal outputs**

Two programmable signal outputs for measuring values (freely scaleable, linear or bilinear) or as continuous control output (control parameters programmable)  
Current loop: 0/4 - 20 mA  
Max. burden: 510 Ω

**Control function**

Relays or current outputs programmable for 1 or 2 pulse dosing pumps, solenoid valves or for one motor valve. Programmable P, PI, PID or PD control parameters.

**Interface option**

PROFIBUS DP interface as option available.

**Monitor Data**

Panel dimensions: 850 x 280 x 200 mm  
Panel material: PVC  
Total monitor weight: 8.7 kg

**Connection Scheme**

