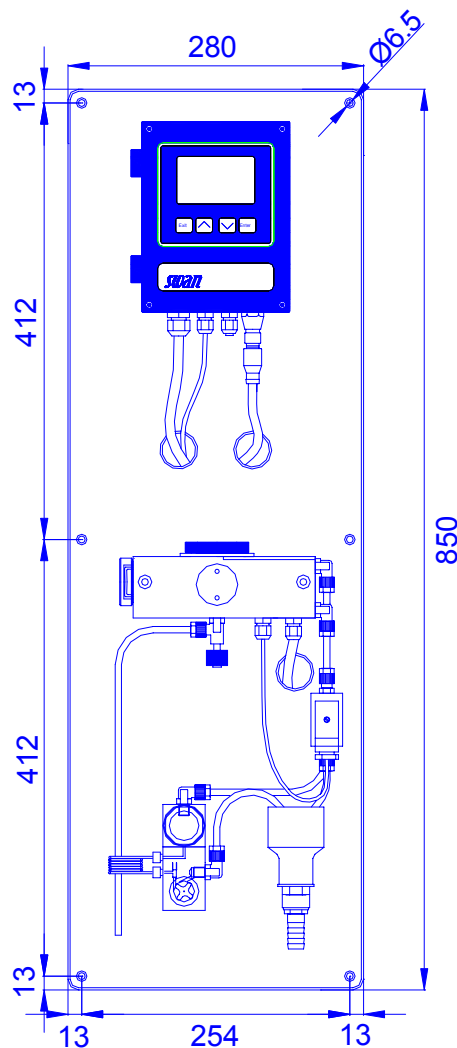


Nephelometric system for the automatic and continuous measurement of low level turbidity in pure water with up to 10 bar sample pressure.

Monitor AMI Turbitrack

- 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)
- Manual verification with high precision secondary standards.
- Automatic purging of optical measurement chamber in programmable intervals.
- Pressure tight sample system up to 10 bar avoids outgassing of sample.
- Transmitter, turbidity sensor, flow cell, flow controller and sensor mounted on panel for immediate use.
- 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.
- Potential-free alarm contact as summary alarm indication for programmable alarm values and for instrument faults.
- Two potential-free contacts programmable as limit switch or PID-control.
- Input for potential-free contact with programmable function.
- Factory tested and calibrated with formazine standards, ready for use.



Order scheme	Monitor AMI Turbitrack	A	2	5	.	4	1	2	0
Power supply:	85-265 VAC, 47-63 Hz				1				
	24 VDC, direct current				2				
Interface option:	None								0
	Profibus DP								2
	Modbus								4

Analytical System

Turbidimeter with flow controller.

Measurement range: 0.000 - 100.0 FNU
with automatic range switching
Precision: ±0.001 FNU or 1% of reading

Automatic purging of optical chamber in programmable intervals.

Operating temperature: 1 - 40 °C
Sample flow: 5 - 20 l/h
Sample pressure: 1 - 10 bar
Sample inlet: Serto 6 mm
Sample outlet: pressure free
(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 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 inputs and signal outputs.

Monitoring of case temperature

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

Real-time clock with calendar

For action time stamp and pre-programmed actions.

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.

Communication interface (option)

RS485 interface with Fieldbus protocol Modbus or Profibus DP V1.

Monitor Data

Panel dimensions: 850 x 280 x 200 mm
Panel material: PVC
Total monitor weight: 7.6 kg

Connection Scheme

