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Data sheet no. DenA25411600X

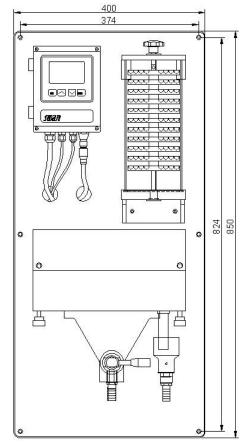
Nephelometric system based on ISO 7027 for the automatic and continuous measurement of turbidity in potable water, surface water and effluent.

Monitor AMI Turbiwell 7027

- Non-contact turbidimeter: System optics is not in direct contact with sample, no fouling on optical surfaces.
- Measuring range: 0.000 200.0 FNU/NTU
 Automatic range switching.
- Precision: ± 0.003 FNU/NTU or 1% of reading.
- Complete system including measurement control electronics, sample chamber and turbidimeter
- Manual or automated draining of the sample chamber.
- Easy user menus in English, German, French and Spanish. Simple programming of all parameters by keypad.
- Electronic record of major process events and calibration data.
- Real-time clock for time stamp in data logs and for automated functions.
- Data logger for 1'500 data records stored at selectable intervals. (Data download to PC requires optional HyperTerminal interface).
- Big back-lit LCD display for the reading of all measured values and status information simultaneously.
- Measurement values are available as analog output signals.
- Potential-free alarm contact as summary alarm indication for programmable alarm values and for instrument faults.
- Input for potential-free contact to freeze the measuring value or to interrupt control in automated installations (hold function or remote-off).
- Factory tested, ready for installation and operation.
- Optional sample degasser to avoid the formation of interfering bubbles in the samples.

Accessories:

• Turbidity verification kits (dry verification)



Monitor AMI Turbiwell with manual drain valve and optional sample degasser

Optional:

- Communication interfaces
- Sample degasser to avoid the formation of interfering bubbles in the samples
- SS deltaT flow meter

Order Nr.	Monitor AMI Turbiwell 7027	A-25.411.600.1
	Monitor AMI Turbiwell 7027; Auto-drain	A-25.411.600.2
Option:	[] 3 rd current signal output (0/4 – 20mA)	A-81.410.020
	[] Profibus DP interface	A-81.420.020
	[] HyperTerminal interface (RS-232)	A-81.420.010
	[] Modbus interface	A-81.420.022
	[] USB interface	A-81.420.040
Option:	[] Sample degasser	A-82.321.000
Option:	[] SS Flow deltaT	A-87.933.010
	[] Flowcontroller	A-82.521.201



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Monitor AMI Turbiwell

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Nephelometer according to ISO 7027

Measuring range:0.000 to 200.0FNU/NTU Precision: \pm 0.003 FNU/NTU or \pm 1%, whichever is greater

Two-part turbidimeter body made of PETP with drain valve. Heated optics to avoid condensation.

Easy cleaning of sample compartment.

Factory calibrated with Formazine.

Optional sample flow measurement with SWAN deltaT flow sensor.

Transmitter Specifications and Functionality

Electronics case: Aluminum Protection degree: IP 66 / NEMA 4X Display: backlit LCD, 75 x 45 mm Electrical connectors: screw clamps Ambient temperature: -10 to +50 °C -25 to +65 °C Limit range of operation: -30 to +85 °C Storage and transport: 10 to 90 % relative, Humidity: non condensing

Power supply

100 - 240 VAC (± 10 %), Voltage: 50/60 Hz (± 5 %) or 24 VDC (± 10 %) max. 30 VA

Power consumption:

Operation

Easy operation based on separate menus for "Messages", "Diagnostics", "Maintenance", "Operation" and "Installation"

Separate, menu specific password protection.

Display of process value, alarm status and time during operation.

Storage of event log, alarm log and calibration history.

Storage of the last 1'500 data records in logger with selectable time interval.

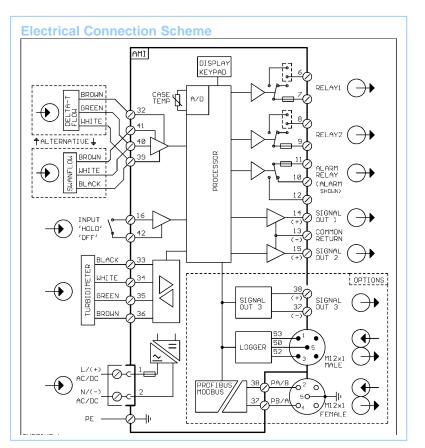
Real-time clock with calendar

For action time stamp and preprogrammed actions.

Safety features

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

Transmitter temperature monitoring With programmable high/low alarm limits.



1 Alarm relay

One potential free contact for summary alarm indication for programmable alarm values and instrument errors. 1A / 250 VAC Maximum load:

1 Input

One input for potential-free contact. Programmable hold or remote off function.

2 Relay outputs

Two potential-free contacts programable as limit switches for measuring values, controllers or timer with automatic hold function. Rated load: 1A / 250 VAC

2 Signal outputs

Two programmable signal outputs for measured values (freely scaleable, linear or bilinear) or as continuous control outputs (control parameters programable).

Current loop:	0/4 - 20 mA
Maximum burden:	510 Ω

Control functions

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

1 Communication interface (option)

- RS232 interface for logger download to PC with SWANTerminal
- RS485 interface (galvanically separated) with Fieldbus protocol Modbus or Profibus DP
- 3rd Signal output
- USB interface

Sample and Monitor Data

Sample conditions

approx. 20-60l/h Flow rate: Temperature: up to 40 °C Sample temperature max. 5°C over ambient temperature pressure free. Outlet pressure: atmospheric drain

Sample connections

Inlet: nozzle, Ø 10mm Drain: Ø 16 mm, tubing 15 x 20 mm

Panel

Dimensions:	400 x 850 x 200 mm
Material:	white PVC
Weight:	10.0 kg