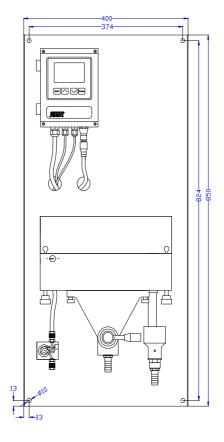
Data sheet no. DenA25411605X



Nephelometric system based on ISO 7027 for the automatic and continuous measurement of turbidity in pure water in water steam cycles.

Monitor AMI Turbiwell Power

- Non-contact turbidimeter: System optics is not in direct contact with sample, no fouling on optical surfaces.
- Complete system including optoelectronics, sample chamber, turbidimeter and sample flow meter mounted on stainless steel panel.
- Suitable for the measurement of other liquids of which the turbidity correlates with the concentration of a suspended solid or an emulsified liquid, e.g. an oil water emulsion.
- Measuring range: 0.000 200.0 FNU/NTU Automatic range switching.
- Precision: ± 0.003 FNU/NTU or 1% of reading.
- 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.
- 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.



Monitor AMI Turbiwell on steel panel with flow meter.

Further options:

 Turbidity verification kits (Low or High FNU for dry verification)

Order Nr.	Monitor AMI Turbiwell Power	A-25.411.605.1
	Monitor AMI Turbiwell Power; Auto-drain	A-25.411.605.2
Option:	[] 3 rd current signal output (0/4 – 20mA)	A-81.420.050
	[] Profibus DP & Modbus RTU interface (RS-485)	A-81.420.020
	[] USB interface	A-81.420.042
	[] HART interface	A-81.420.060

Monitor AMI Turbiwell Power

Data sheet no. DenA25411605X

Nephelometer according to ISO 7027

Measuring range: 0.000 to 200.0FNU/NTU

 \pm 0.003 FNU/NTU or \pm 1%, Precision: 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.

Possibility to detect oil in pure water. Restrictions do apply.

Sample flow measurement with digital Swan sample flow sensor.

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: Storage and transport: -30 to +85 °C Humidity: 10 to 90 % relative, non condensing

Power supply

100 - 240 VAC (± 10 %), Voltage:

50/60 Hz (± 5 %)

or 24 VDC (± 10 %)

max. 30 VÁ Power consumption:

Operation

Easy operation based on separate menus for "Messages", "Diagnostics", "Mainte- 1 Input nance", "Operation" and "Installation".

Separate, menu specific password protec-

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.

Electrical Connection Scheme AMI V2.5 DISPLAY ใหยดนท A/D GREEN **WHITE** PROCESSOR BROWN WHITE ALARM RELAY BI ACK (ALARN SIGNAL OUT 1 HOLD COMMON SIGNAL OUT 2 TURBIDIMETER OPTIONS ΡE PROFIBUS TURRTUELL

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. -Maximum load: 1A / 250 VAC

One input for potential-free contact. Pro- Sample conditions grammable hold or remote off function.

2 Relay outputs

Two potential-free contacts program-able as limit switches for measuring values, Outlet pressure: controllers or timer with automatic hold function.

Rated load:

2 Signal outputs (3rd as option)

Two programmable signal outputs for measured values (freely scalable, linear or Panel bilinear) or as continuous control output Dimensions: (control parameters programmable) as Material: current source. 3rd signal output selectable Weight: as current source or current sink.

0/4 - 20 mACurrent loop: Maximum burden: 510 Ω

Control functions

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.

1 Communication interface (option)

- RS485 interface (galvanically separated) with Fieldbus protocol Modbus RTU or Profibus DP
- 3rd Signal output
- USB interface
- HART interface

Sample and Monitor Data

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

pressure free, atmospheric drain

1A / 250 VAC Sample connections

Serto, 6mm Inlet: Ø 16 mm, tubing 15 x 20 mm Drain.

400 x 850 x 200 mm stainless steel 14 0 kg