

SWAN Analytical USA 229 Larkin Dr, Wheeling IL 60090 Tel. 847-229-1290 Fax 847-229-1320 www.swan-analytical-usa.com info@swan-analytical-usa.com

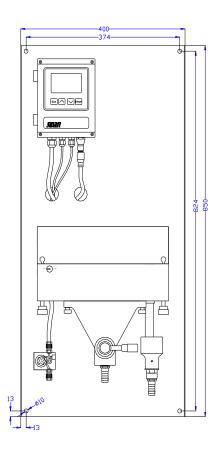
Monitor AMI Turbiwell

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. (Data download to PC requires optional Hyper-Terminal 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.



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-81.410.020
	[] 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



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Monitor AMI Turbiwell

Data sheet no. DenA2541X6X5X

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.

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

Sample flow measurement with digital Swan sample flow sensor.

Functionality

Electronics case:		Aluminum
Protection degree	e :	IP 66 / NEMA 4X
Display:	backlit l	_CD, 75 x 45 mm
Electrical connect	tors:	screw clamps
Ambient tempera	ture:	-10 to +50 °C
Limit range of ope	eration:	-25 to +65 °C
Storage and transport:		-30 to +85 °C
Humidity:	10	to 90 % relative,
-		non condensina

Power supply

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

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.

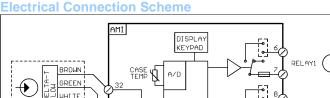
Storage of the last 1'500 data records in logger with selectable time interval.

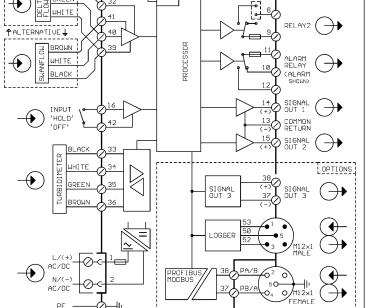
Real-time clock with calendar

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 instrument values and errors. Maximum load: 1A / 250 VAC -

1 Input

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

2 Relay outputs

Two potential-free contacts program-able as limit switches for measuring values, controllers or timer with automatic hold Outlet pressure: 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 out- Panel puts (control parameters program-able). Current loop: 0/4 - 20 mA 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)

- 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 conditions

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

Sample connections

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

Dimensions:	400 x 850 x 200 mm
Material:	stainless steel
Weight:	12.0 kg