

Data sheet no. DenA26541000

Microprocessor controlled system for the determination and control of hydrazine or carbohydrazide used as boiler feedwater oxygen scavengers

Monitor AMI Hydrazine

Complete system on stainless steel mounting panel:

• Transmitter AMI Hydrazine in a rugged aluminum enclosure (IP 66).

Sensor system

Self-cleaning three-electrode system for determination of hydrazine or carbohydrazide.

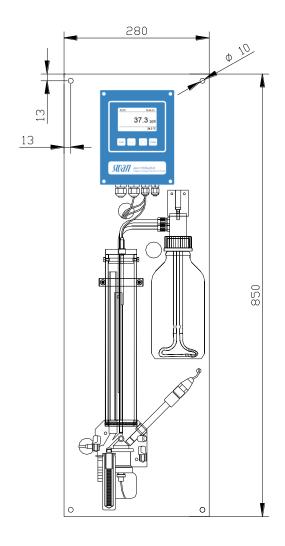
Flow cell

made of acrylic glass with flow adjustment valve, digital sample flow monitor and integrated temperature probe. Sample alkalinization with highly efficient diisopropylamine

Factory tested, ready for installation and operation.

Specifications:

- Measurement range for hydrazine or carbohydrazide: 0.1 to 600 ppb
- Automatic temperature compensation.
- Automatic, continuous monitoring of sample flow and sensor cleanliness.
- Big backlit LC display for the reading of measuring value, sample temperature, sample flow and operating status.
- 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.
- Data logger for 1'500 data records stored at a selectable interval. (Data download to PC requires optional HyperTerminal interface).
- Two current signal outputs (0/4 20 mA), galvanically separated from sensor input, for hydrazine or carbohydrazide concentration and temperature or as continuous control outputs.



Order Nr.	Monitor AMI Hydrazine	A-26.541.000
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 Hydrazine

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Self-cleaning three-electrode system with automatic temperature compensation. Maintenance-free reference electrode.

0.1 - 600 ppb Range:

Accuracy: 5% of reading up to 200 ppb ± 15% up to 600 ppb or ± 2 ppb (whichever is greater).

± 5% of reading per month Stability:

or ± 2 ppb per month

(whichever is greater).

Response time: 90 % of change 60 sec after sample entered flow cell

Temperature measurement NT5K

Measuring range: up to 60 °C Resolution: 0.1 °C

Sample flow measurement

With digital SWAN sample flow meter and alarm in case of insufficient sample flow

and Functionality

Electronics case: Cast aluminum IP 66 / NEMA 4X Protection degree: backlit LCD. 75 x 45 mm Display: Electrical connectors: screw clamps Dimensions: 180 x 140 x 70 mm Weight: 1.5 kg Ambient temperature: -10 to +50°C Humidity: 10 - 90% rel., non condensing

Power supply

Voltage: 100 - 240 VAC (± 10 %), 50/60 Hz (± 5 %)

or 24 VDC (± 10 %)

Power consumption: max. 30 VÁ

Operation

Easy operation based on separate menus for "Messages", "Diagnostics", "Maintenance", "Operation" and "Installation". User menus in English, German, French and Spanish.

Separate menu specific password pro-

Display of process value, sample flow, 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.

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 CASETEMP DISPLA KEYPAD (⊜ TR A/D PROCESSOR SIGNAL OUT 1 COMMON HOLD. LOGGER AC/DC AC/DC

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 faults. Maximum load: 1A / 250 VAC

1 Input

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

2 Relay outputs

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

2 Signal outputs (3rd as option)

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

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

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

Monitor Data

Sample conditions

approx. 15 L/h Flow rate: Temperature range: 15 - 45 °C Inlet pressure: 0.15 - 2 bar pressure free Outlet pressure: equal or higher than pH 7.0 pH value: Reagent consumption (at 25°C):

< 1L diisopropylamine per month

Flow cell and connections

Acrylic glass with safety filter, metering tap and sample tap, inserts for all sensors.

tube adapter 4 x 6 mm Sample inlet: Sample outlet: tube adapter 15 x 20 mm

Panel

Dimensions: 280 x 850 x 200 mm Material: stainless steel Total weight: 9.0 kg