Data sheet no. DenA2611XX00



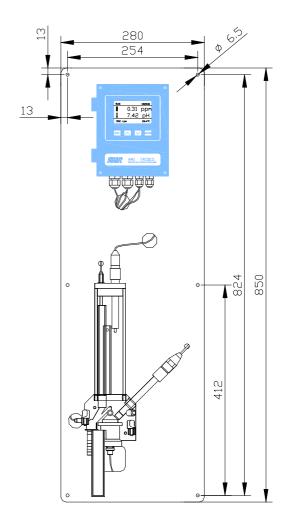
Microprocessor controlled system for the automatic and continuous measurement of

Monitor AMI Trides

• Complete system for monitoring and controlling of disinfectant levels.

disinfectants in potable water and swimming pools

- Range 0.00 5.00 ppm free chlorine, 0.000 -1.000 ppm ozone, 0.00 - 3.00 ppm chlorine dioxide, iodine, bromine.
- Transmitter, disinfectant sensor, temperature sensor, flow sensor and flow cell, mounted on PVC panel, factory tested and ready to operate.
- Real-time-pH-compensation of chlorine measurement with integrated pH-meter (optional pH sensor).
- Measuring transmitter in an aluminum case (IP 66) 180 x 140 x 70 mm.
- Large backlit graphic display for the reading of measuring value, flow and operating status. Full text menu driven user interface.
- Easy programming of all parameters by keypad.
- Sensor: Self-cleaning TRIDES three-electrodesystem for measurement of disinfectants.
- Automatic temperature compensation.
- Monitoring of sample flow and sensor cleaning.
- Over voltage protection for in- and outputs.
- Two signal outputs, galvanically separated from sensor input 0/4 - 20 mA for disinfectant or temperature or as continuous control outputs.
- Signal outputs freely scalable and with simulation mode.
- 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, function programmable.



Options:

- Communication interface for transmitter.
- pH electrode with cable or ORP (Redox) electrode with cable.

Order Nr.	Monitor AMI Trides AC	A-26.111.000
	Monitor AMI Trides DC	A-26.112.000
	Monitor AMI Trides Compact Version AC	A-26.111.100
	Monitor AMI Trides Compact Version DC	A-26.112.100
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
Option:	[] pH measurement	A-87.127.010
	[] ORP measurement	A-87.427.010



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Monitor AMI Trides

Data sheet no. DenA2611XX00

Signal input (galvanically separated) for TRIDES disinfectant sensor.

Measuring range: Accuracy: Ozone \pm 0.005 ppm 0.000 - 1.000 ppm HOCI, free chlorine 0.00 - 1.00 ppm \pm 0.01 ppm 1.00 - 3.00 ppm \pm 0.06 ppm 3.00 - 5.00 ppm

Chlorine dioxide, iodine, bromine

 \pm 0.01 ppm 0.00 - 1.00 ppm \pm 0.06 ppm 1.00 - 3.00 ppm

Stability (HOCI): \pm 1% from end of interval during 1 month at normal conditions

Response time:

± 0.2 ppm

90 % of change of excessive Cl₂ in 60 seconds after sample entered flow cell.

Automatic temperature compensation.

Temperature measurement

Resolution: 0.1 °C Accuracy: ± 0.2 °C

pH measurement (option)

Measuring range: pH 2 to pH 12 Resolution: 0.01 pH

ORP (Redox) measurement (option)

Measuring range: - 400 to +1'200 mV Resolution:

Restrictions of use

Presence of following substances may perturb the measurement: cyanuric acid, 5,5-Di-methyldantoin, phosphates, copper, sand.

and Functionality

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

Power supply

Voltage:

AC version: 100 - 240 VAC (± 10 %), 50/60 Hz (± 5 %) DC version: 10 - 36 VDC

Power consumption: max. 35 VA

Operation

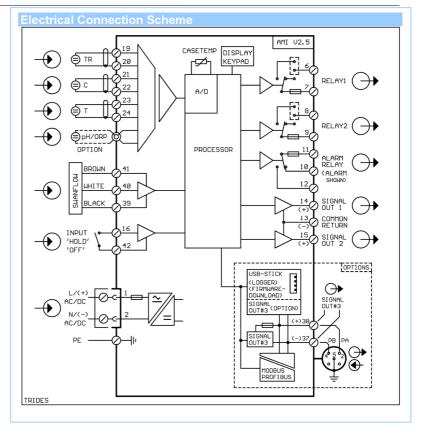
Easy operation based on separate menus for "Messages", "Diagnostics", "Maintenance", "Operation" "Installation".

User menus in English, German, French, Spanish, Italian and Turkish.

Separate menu specific password protection.

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.

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

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

2 Relay outputs

potential-free contacts Two 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 scalable, linear or bilinear) or as continuous control (control parameters output programmable) as current source. 3rd signal output selectable as current source or current sink.

0/4 - 20 mA Current 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 conditions

Water consumption: approx. 40 l/h Temperature: 5 to 45 °C Pressure water inlet: 0.15 to 2 bar Min. sample conductivity: 5 μS/cm

Trides flow cell

Flow cell made of acrylic glass with insert for Trides sensor and flow sensor. Insert for temperature sensor and 3 additional inserts 12 mm for sensors.

Connection inlet: 6 x 9 mm Water outlet: atmospheric drain Connection outlet: 14 x 20 mm (1/2")

Panel

280 x 850 x 200 mm Dimensions: (compact :)300 x 530 x 200 mm Mounting panel: PVC. Weight: 6.0 kg