Data sheet No. DenA75200000

Portable inspection equipment for quality assurance of trace oxygen monitors.

AMI INSPECTOR Oxygen

Complete portable system mounted on small, aluminum panel:

- Transmitter AMI INSPECTOR Oxygen in a rugged aluminum enclosure (IP 66).
- Swansensor Oxytrace G with three electrode setup (cathode, anode and guard) and integrated NT5k temperature sensor.
- Flow cell QV-Flow PMMA OTG made of acrylic glass with needle valve and digital sample flow meter.
- Rechargeable battery for stand-alone operation.
- Carrying case
- USB interface for logger download to PC.
- Factory tested, ready for installation and operation.

TO PAGE INTERNAL SERVICES INTE

Specifications:

- Measuring range:
 0.01 ppb to 20ppm O₂ (at 25°C) or
 0 200% saturation
- Big LC display for the reading of measuring value, sample temperature, sample flow, operating status and battery charge condition.
- 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.
- Two current outputs (0/4 20 mA) for measured signals.

Optional:

• Instrument certificate

Order Nr.	AMI INSPECTOR Oxygen	A-75.200.000
Option:	[] Instrument certificate	A-97.017.200



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AMI INSPECTOR Oxygen

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Dissolved Oxygen

Swansensor Oxytrace G with three electrode setup (cathode [gold], anode and guard [silver]) with integrated NT5k temperature sensor.

Measuring range Resolution 0.01 to 9.99 ppb 0.01 ppb 10 to 199.9 ppb 0.1 ppb 200 to 1999 ppb 1 ppb 2 to 20 ppm 0.01 ppm 0 - 200% saturation 0.1% saturation Automatic range switching.

Accuracy / Repeatability:

Accuracy ± 1.5 % of reading or ± 0.2 ppb Repeatability: ± 1 % of read. or ± 0.15 ppb

Response time

 $t_{90} < 30$ sec. (rising concentration)

Temperature measurement NT5k

Measuring range: -30 to +130 °C Resolution: 0.1 °C

Sample flow measurement

with digital SWAN sample flow sensor.

Functionality

Electronics case: IP 66 / NEMA 4X Protection degree: LCD, 75 x 45 mm Safety features Display: Electrical connectors: Dimensions: Weight: Ambient temperature: Humidity: 10 - 90% rel., non condensing and signal outputs.

Power supply - Battery

Use original, supplied wall mount power adapter only.

90 - 264 VAC, 50/60 Hz 1 Alarm relay Voltage: Power consumption: Charging time: Battery type: During charging protect from heat impact Maximum load:

and keep splash-proof (not IP66).

Operating time

Stand-alone (Battery): continuous tion. Connected adapter: Controlled shut-down when battery is empty, remaining time is displayed.

Operation

Easy operation based on separate men-"Messages", "Maintenance", "Operation" and "Installa- Rated load: tion". User menus in English, German, French and Spanish.

Separate menu specific password protec-

Display of process value, sample flow, alarm status, time and battery charge condition.

Electrical Connection Scheme AMI CASETEMP KEYPAD -Ø BROWN GREEN A/D WHITE PROCESSOR -LOGGER SUPPL \ CHARGER

Storage of event log, alarm log and cali- Control functions bration history.

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

screw clamps No data loss after power failure, all data 180 x 140 x 70 mm is saved in non-volatile memory.

1.5 kg Overvoltage protection of in- and outputs. -10 to +50°C Galvanic separation of measuring inputs

Transmitter temperature monitoring

with programmable high/low alarm limits.

max. 20 VA One potential free contact for summary ~ 6h alarm indication for programmable alarm Li-lon values and instrument errors.

1A / 250 VAC

One input for potential-free contact. > 24h 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 clean-"Diagnostics", ing with automatic hold function.

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

Relays or current outputs programmable for 1 or 2 pulse dosing pumps, sole-noid valves or for one motor valve.

Programmable P, PI, PID or PD control parameters

1 Communication interface

USB interface for logger download to PC.

Monitor Data

Sample conditions

Flow rate: 8 to 25 l/h Temperature: up to 45 °C Inlet pressure (25 °C): 0.2 to 1 bar Outlet pressure: pressure free not lower than pH 4 pH: Suspended solids: less than 10 ppm

Flow cell and connections

Flow cell made of acrylic glass with builtin flow adjustment valve and digital sample flow meter.

Inlet: 1/4" Swagelok tube adapter Outlet: flexible tube 8 x 6 mm

Panel

275 x 320 x 240 mm Dimensions: anodized aluminum Material: Total weight: 4.5 kg