

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 Stick for data logging.
- Factory tested, ready for installation and operation.

Specifications:

- Measuring range: 0.01 ppb to 20ppm O_2 (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.
- One current output (0/4 20 mA) for measured signal.



Optional:

• Instrument certificate

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



AMI INSPECTOR

Oxygen

Data sheet No. DenA75200000

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

t₉₀ < 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:	Cast aluminum
Protection degree:	IP 66 / NEMA 4X
Display:	LCD, 75 x 45 mm
Electrical connectors:	screw clamps
Dimensions:	180 x 140 x 70 mm
Weight:	1.5 kg
Ambient temperature:	-10 to +50°C
Humidity: 10 - 90% r	el non condensina

Power supply - Battery

Use original power adapter only. 85 - 265 VAĆ, 50/60 Hz Voltage: Power consumption: Charging time: Battery type: During charging protect from heat impact and keep splash-proof (not IP66).

Operating time

Stand-alone (Battery):	> 24h
Connected adapter:	continuous
Controlled shut-down when battery is	
empty, remaining time is displayed.	

Operation

for "Messages", "Diagnostics", us "Maintenance", "Operation" and "Installa- ing with automatic hold function. tion". User menus in English, German, Rated load: French and Spanish.

Separate menu specific password protection.

alarm status, time and battery charge condition.

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

max. 20 VA 1 Alarm relay

~ 6h One potential free contact for summary Li-lon alarm indication for programmable alarm values and instrument errors. Maximum load: 1A / 250 VAC

1 Input

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

2 Relay outputs

Two potential-free contacts programma-Easy operation based on separate men- ble as limit switches for measuring val-D ues, controllers or timer for system clean-Μ Т 100 mA / 50 V

1 Signal output

One programmable signal output for Display of process value, sample flow, measured value (freely scalable, linear or bilinear) or as continuous control outputs (control parameters programmable). 0/4 - 20 mA Current loop: Maximum burden: **510** Ω

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

USB Stick for logger data.

8 to 25 l/h
up to 45 °C
: 0.2 to 1 bar
pressure free
not lower than pH 4
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

imensions:	275 x 320 x 240 mm
laterial:	anodized aluminum
otal weight:	4.5 kg

