

Dansensor® ISM-3

OXYGEN MEASUREMENTS DOWN TO ONE PPM LEVEL



Benefits

- High reliability and accuracy
- better than $\pm 1\%$ of reading
- Low maintenance demand
- Measuring range:
1 ppm - 100% (std. 0-20.9%)
- Self diagnostics - monitoring of vital parameters with alarm output

Features

- 2 oxygen concentration alarms
- Sample gas supply by gas pressure or internal pump (specific instrument versions)
- Different set-up options for adaptation to the analyzer application
- 0/4 - 20 mA as standard (optional: 0-10V if specified with the order)

Sensor module for O₂ monitoring: Process analyzer with low maintenance demand

If all you need is a readout of the oxygen concentration in a pure gas or gas mixture of inert gas or CO₂ then the Dansensor® ISM-3 is the answer. There is nothing complicated about it – just connect it to a pressurised tank or use the pump version of the Dansensor ISM-3 to draw a sample from your process.

The Dansensor ISM-3 is highly accurate and yet simple to use.

Typical applications for the Dansensor ISM-3 are measuring purity levels from gas generators or measurement of the residual oxygen level in nitrogen flushing processes.

However, if you are concerned about your gas consumption or if you need data logging capabilities, also remember to evaluate the Dansensor MAP Check 3 gas analyzer.

ISM-3 PRODUCT VARIANTS

Available Dansensor ISM-3 Versions

| Item no. | Type | Pressure | Pump | Remote display | Built-in display | 230 VAC | 115 VAC |
|----------|--------------|----------|------|----------------|------------------|---------|---------|
| 600286 | ISM-3x | • | | | • | • | |
| 600285 | ISM-3i | • | | • | | • | |
| 600287 | ISM-3i, Pump | | • | • | | • | |
| 600288 | ISM-3x, Pump | | • | | • | • | |
| 600281 | ISM-3x | • | | | • | | • |
| 600280 | ISM-3i | • | | • | | | • |
| 600282 | ISM-3i, Pump | | • | • | | | • |
| 600283 | ISM-3x, Pump | | • | | • | | • |

Optional sample kit for flow packaging machines (part number 270165)



Technical Specifications

| Available configurations | Dansensor ISM-3i | Dansensor ISM-3x |
|---------------------------------|---|--------------------|
| Weight | 3,7 kg | 3,8 kg |
| Product size (HxWxD) | Cabinet: 125 x 185 x 125 mm Display: 96 x 96 x 20 mm 3 mm bezel for panel mounting | 125 x 185 x 160 mm |
| Common technical specifications | | |
| Sensor type | Ceramic, solid state O ₂ sensor | |
| Start up time | 10 min. Full specs. after 20 min. | |
| Calibration intervals | 12 months | |
| Accuracy | Better than ± 1% of the displayed value, ± 1 digit in calibrated range | |
| Sensor flow | 125 ml/min. | |
| Alarms | Two O ₂ concentration alarm settings, system fault alarm (bad gas flow, sensor error, etc.) | |
| Alarm output | Max 48 V, 1 A (common, N.O. or N.C.) | |
| Current output | 0/4 - 20 mA as standard (optional: 0-10V if specified with the order), scale can be defined by operator, i.e. 0-1%, 0-100 ppm | |
| Signal input | 10 - 32 VDC external measuring control signal for start/stop of the analyzer | |
| Power | 230 VAC (115 VAC) ± 10%, 50 - 60 Hz | |
| Cabinet | Stainless steel | |
| Measuring range | 0-100% (std. calibration 0-20.9%) | |

Specifications subject to change without notice. Further specifications are available in the User Guide.

DS-PTPS-DansensorISM-3-EN-9