

Oxygen and Moisture Analyzer

The OxyDew combines oxygen and dewpoint measurement parameters by using our proven intelligent sensor technology. Dual, simultaneous measurement and an in-built datalogging system enable quick, cost-effective access to values and trend information at the touchscreen. Wall-mountable and with a sleek design, it can be integrated simply into OEM systems.

Highlights

- Measurement ranges from 0...10 ppmv up to 0...96% O₂ and 0...3000 ppmv
- In-built datalogging
- Plug-and-play

Applications

- Additive Manufacturing
- Gas generation
- Gas quality measurements



Technical specifications

| Sensors | | |
|----------------------------|---|--|
| Measuring: | Gas | Moisture |
| Technology | Ntron SenzTx ZR & EC | Michell Easidew |
| Range | 0...10 ppmv, 0...1000 ppmv 0...25%, 0...96% O ₂ | -100 °C...+20 °C* Moisture content: 0...3000 ppmv |
| Response time (T90) | <10 secs @ 25 °C (within selected range) | 5 mins to T95 (dry to wet) |
| HMI | <ul style="list-style-type: none"> ▪ 5" capacitive touchscreen ▪ O₂ and moisture measurement displays by value and trend ▪ In-built datalogging ▪ User configuration of display units, ranges and alarm settings | |
| Outputs | <ul style="list-style-type: none"> ▪ 0/4...20 mA, 0...10 V ▪ RS485 Modbus | |

| Measuring: | Gas | Moisture |
|-------------------------------|---|----------|
| Relay outputs | <ul style="list-style-type: none"> ▪ Qty 4: Changeover dry contact. 3 A, 30 V DC, 250 V AC max ▪ Qty 1: Dedicated fault relay, dry contact. 1 A 30 V DC max | |
| Alarms | 12 user selectable (O ₂ , moisture, flow) Options to configure with latching and assign to relay output | |
| Sample flow rate | 2 L/min (4 SCFH) | |
| Max. sample pressure | 3...10 barg (43...145 psig) | |
| Optional configuration | <ul style="list-style-type: none"> ▪ Vacuum pump ▪ Secondary O₂ sensor: 0...25% ▪ Pressure sensor | |
| * Dew point | | |

! CAUTION

As customer applications are outside of PST control, the information provided is given without legal responsibility. Customers should test under their own conditions to ensure the equipment is suitable for the intended application(s).

PST adopts a continuous development program which sometimes necessitates specification changes without notice. For technical assistance or enquiries about other options, please contact:

oxygen@processsensing.com

©2022 Process Sensing Technologies