



Orbisphere Nitrogen (N₂) TC sensor with carbon dioxide purge, protection cap, ext. temp. sensor (20 bar)

Product #: 31590TC
ZAR Price: Contact Hach

Selective gas measurement

Nitrogen TC sensor with carbon dioxide purge and protection cap. With external temperature sensor adapter.

Sensor cable to be ordered: 32505.03. Maximum pressure: 20 bar.

This sensor is the successor model for 31560 and 31550.

Unique thermal conductivity (TC) sensor design

No sample preparation needed, the gas concentration is measured directly in the sample

Rugged construction can handle harsh plant conditions and high sample pressures

Fast response time to improve plant productivity

Compact design for easy insertion into a process line or a flow chamber

Specifications

Accuracy:	(Sample temp. 20 - 50 °C within ± 5 °C of calibration temperature) The greater of ±2% of reading or ±15 mbar or ±0.3 ppm or ±0.25 mL/L
Accuracy 2:	(Sample temp. 0 - 50 °C independent of calibration temperature) The greater of ±4% of reading or ±34 mbar or ±1 ppm or ±0.8 mL/L
Application:	In-line beverage, semi-conductors industry
Certifications:	2004/108/EC - EN 61326-1
Cycle Time:	22 s
Flow Rate:	Typical Flow Rate 300 mL/min
Parameter:	Nitrogen (TC)
Protection Class:	IP65
Purge connection:	Carbon Dioxide Purge
Range:	Range at 25 °C 0 - 20 bar, or 0 - 350 ppm, or 0 - 300 mL/L
Sample Pressure:	0 - 20 bar
Temperature Range:	-5 - 50 °C
Warranty:	6 months
Weight:	0.95 kg
What's included?:	Sensor only.

Controller, sensor cable, flow-chamber or process connection must be ordered separately.

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