



Orbisphere High Pressure Hydrogen (H₂) TC sensor with nitrogen purge, protection cap, ext. temp. sensor (170 bar)

Product #: 31290HP
ZAR Price: Contact Hach

Allows you to monitor hydrogen in the power production process.

High Pressure Hydrogen TC sensor with nitrogen purge and protection cap. With external temperature sensor adapter.

Sensor cable to be ordered: 32505.03.

Maximum pressure: 170 bar

This sensor is the successor model for 31260HP.

Unique thermal conductivity (TC) sensor design

Selective and precise measurement of hydrogen in gaseous or liquid samples

No specific sample preparation required, the gas concentration is measured directly in the sample

Rugged construction can handle harsh plant conditions and high sample pressures

Flexibility of installation for better process control and very low maintenance

Specifications

Accuracy:	(Sample temp. 20 - 50°C within ± 5°C of calibration temperature)
	The greater of
	Membrane 29561A: ±1% of reading, or ±2 ppb, or ±0.03 cc/kg, or ±1.5 bar
	Membrane 2952A: ±1% of reading, or ±8 ppb, or ±0.1 cc/kg, or ±6 mbar
	Membrane 2935A: ±1% of reading, or ±25 ppb, or ±0.4 cc/kg, or ±20 mbar
Accuracy 2:	(Sample temp. 0 - 50°C independent of calibration temperature)
	The greater of
	Membrane 2952A: ±3% of reading, or ±60 ppb, or ±0.6 cc/kg, or ±20 mbar
	Membrane 2935A: ±3% of reading, or ±150 ppb, or ±2.5 cc/kg, or ±50 mbar
Application:	Power
Certifications:	2004/108/EC - EN 61326-1
Cycle Time:	17 s
Flow Rate:	Typical Flow Rate Membrane 29561A: 220 mL/min
	Membrane 2952A: 200 mL/min

	Membrane 2935A: 100 mL/min
Protection Class:	IP65
Purge connection:	Nitrogen Purge
Radiation Resistance Level:	Membrane 29561A: 10 ⁵ rad
	Membrane 2952A: 10 ⁸ rad
	Membrane 2935A: 10 ⁸ rad
Range:	Range at 25 °C
	Membrane 29561A: 0 - 2 ppm, or 0 - 25 cc/kg, or 0 - 1.5 bar
	Membrane 2952A: 0 - 10 ppm, or 0 - 120 cc/kg, or 0 - 6 bar
	Membrane 2935A: 0 - 20 ppm, or 0 - 220 cc/kg, or 0 - 12 bar
Response Time:	17 s
Sample Pressure:	0 - 170 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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