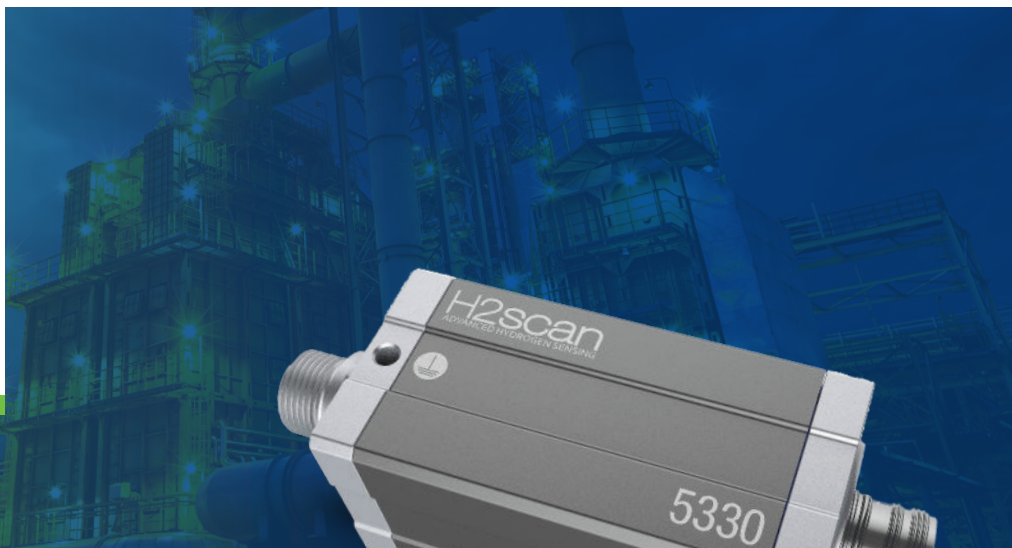


HY-OPTIMA™ 5330 IS Gen 5 Sensor Family

INTRINSICALLY SAFE
HYDROGEN IN-LINE
PROCESS ANALYZER



Revolutionary Self-Calibrating Hydrogen Measurement for Industrial Applications

The intrinsically safe HY-OPTIMA™ 5330 Sensor family brings unparalleled reliability and robustness durability to hydrogen in-line monitoring for diverse applications within the industrial processing sector, from chemical facilities and refineries to the burgeoning green hydrogen economy. The unit is built on H2scan's patented, solid-state hydrogen sensing technology, which is the only hydrogen sensor on the market that can provide at least 10 years of auto-calibration operation. The units' real-time, hydrogen-specific measurements can enhance process plant efficiencies, improve yields, reduce maintenance costs and enable the green hydrogen economy.

Intrinsically Safe Gen 5 Analyzer Enhances H2scan's Patented Hydrogen Sensing Technology

The IS Gen 5 provides continuous, hydrogen-specific monitoring without cross-sensitivity to other gases. Its compact form allows easy installation, alone or for OEM integration into existing analyzer systems. The unit's self-calibrating capability maintains long-term accuracy for up to 10 years of the analyzer's life, dramatically reducing the total cost of ownership and increasing the reliability of hydrogen monitoring.

Upgrade Your Hydrogen Safety Program with a Complete Solution

Long-Term Reliability: Up to 10 years of maintenance-free operation of the hydrogen-sensing element

Versatile Integration: Easy installation for stand-alone hydrogen measurement or as the hydrogen monitoring component within existing OEM devices

Broad Applicability: Ideal for industrial production facilities across myriad industries, including refineries, petrochemical plants, gas manufacturing, hydrogen-based process lines, hydrogen production and distribution, fuel/cells, electrolyzers, facilities and more

Cost-Effective: Enables comprehensive coverage while reducing total cost of ownership by more than 40% over its lifespan

Improved Safety: Improves safety during hydrogen production or use with accurate hydrogen measurement

Easy In-line Integration: Compact form factor fits easily into processing gas streams

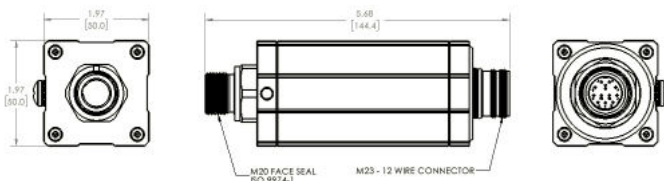
Easy In-line Integration: No consumables required, supporting greener operations



Improve worker safety, protect capital equipment and streamline processes with reliable and affordable hydrogen sensing technology. Highly dependable and robust with low life cycle costs.

- Zero manual calibration requirements
- Zero consumables like calibration gases
- Zero reference or carrier gases required
- Zero sensor replacements due to its up to 10-year lifespan
- No false alarms from cross-sensitivity to other gases
- 100% continuous real time, accurate monitoring with no process downtimes
- Tolerant of many harsh background contaminants
- Easy serial communication with unit via integrated digital and analog capabilities
- Relays to trigger alarms into any safety system
- Compact design for versatile installation options

HY-OPTIMA™ 5330 IS Gen 5 Sensor Family Dimensions



Performance

Operating Pressure at Analyzer	
Recommended	1-2 ATM Absolute
Maximum	0.1 to 10 ATM Absolute
Process Gas Temperature	-20 to 60° C (models 5331 and 5333) -20 to 50° C (model 5334) -20 to 80° C (model 5332)
Flow Rate	0.1 to 10 SLPM (1/4" TUBE)
Operating Humidity	< 95% RH (non-condensing)
Calibration	None (auto calibrating)
Output Signal	
Digital	MODBUS over RS-485, three-wire, half-duplex
Analog	4-20 mA
Power	
Input Voltage	9 to 15.6 VDC
Input Power	2 Watts
Physical	
Dimensions	144.4 mm x 50 mm x 50 mm [5.68 in x 1.97 in x 1.97 in]
Weight	748.43 grams [1.65 lbs]
Electrical Fitting	TWELVE-PIN, M23
Sensor Fitting	M20 FACE SEAL, ISO 9974-1
Environmental	
Ingress Protection	IP66
Operating Temp	-20 to 80° C
Storage Temp	-20 to 105° C
Certifications	
UL and Hazardous Location (coming soon)	

Product Selection

MODEL	Hydrogen range low	Hydrogen range high	CO limit	H2S Limit	T90 Response Time (sec)	Accuracy Low to 10 H2	Accuracy 10 to 100% H2	Drift/Week	Repeatability Low to 10% H2	Repeatability 10 to 100% H2	Linearity Low to 10% H2	Linearity 10 to 100% H2
5331	0.03%	10%	100 ppm	20 ppm	<90	0.15%	N/A	None	0.15%	N/A	0.15%	N/A
5332	0.4%	5%	0	0	<60	0.3%	N/A	None	0.3%	N/A	0.3%	N/A
5333	0.5%	100%	100 ppm	1000 ppm	<60	0.3%	1%	None	0.2%	0.4%	0.2%	0.4%
5334	0.5%	100%	20%	3%	<90	0.3%	1%	None	0.2%	0.4%	0.2%	0.4%

Specifications subject to change without notice
Printed Documents are uncontrolled.
© 2024 H2scan