

HYDROGEN DETECTION FOR NEW ENERGY APPLICATIONS



Monitoring Hydrogen Leaks

Bionics Instrument Europe BV, a New Cosmos Group Company, your solution for measuring hydrogen at Fuel Cell applications and safety in hydrogen new energy applications.

More than 50 years of experience and a strong proven track record with respect to solutions for gas detection.

- Forklifts
- Power stations
- Automotive
- Refuelling stations
- Hydrogen production & distribution stations
- Gas storage
- Gas transport



Fixed detection



FCV Sensor / Transmitter

A small but rugged designed hydrogen detector suitable for a wide range of automotive and other applications using the high quality reliable New Cosmos technology.

Range	0-100% LEL H ₂
Detection method	Diffusion type
Power supply	9.5 – 14.5 VDC
Output signal	PWM duty cycle or 1.5 to 4.5 VDC
Power consumption	0.65 W



KD-12 Detector-Indicator-Transmitter

Rugged design, suitable for all industrial applications.

Ranges	Available from ppm to LEL level
Detection method	Diffusion type / ATEX certified
Power supply	24 VDC (18-30 VDC)
Output	4 - 20 mA, potential free relays contact
Power consumption	< 3 W



PD-12 Detector-Indicator-Transmitter

Very rugged design, suitable for a wide range of industrial applications. Suitable for detection in areas with limited access.

Ranges	Available in a wide range from ppm to LEL level
Detection method	Sample draw / ATEX certified
Power supply	24 VDC (18-30 VDC)
Output	4-20 mA, potential free relays contact
Power consumption	< 7.5 W

Portable detection



XP-31XX Series Portable Detectors

Robust design and suitable for a wide range of industrial applications. Designed to detect small traces of leaks at gas cabinets, panels metering stations etc.

Ranges	
XP-3110	0-100% LEL
XP-3160	0-500 ppm / 5000 ppm
Detection method	Sample draw / ATEX certified
Power supply	4 x AA alkaline dry cell battery
Comes with	Internal memory to store the measured values
Display	LCD with backlight
Optional	<ul style="list-style-type: none"> • Sample tube/hose extension • Software and cable to download the internal memory.



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