

Lower-Explosive-Limit Hydrocarbon Sensor

Providing continuous monitoring of combustible gases and vapors in ambient air in Zone 2 areas

Applications

- Detection of gas leaks

Features and Benefits

- Provides continuous monitoring of combustible gases and vapors in ambient air
- Approved for use in Zone 2 areas
- Features easy, menu-guided calibration of the transmitter
- Offers optional infrared sensor

Tool Description

The Weatherford lower-explosive-limit (LEL) hydrocarbon sensor may be installed in Zone 2 areas for continuous monitoring of combustible gases and vapors in ambient air. Its hydrocarbon sensor comes in either of two LEL models: One model detects gas concentrations ranging from 0 to 10%. The other detects gas concentrations ranging from 0 to 100% and offers the option of an infrared sensor. The sensor is designed for one-man calibration, and it has a variety of diagnostics and self-test features. The configuration and calibration of the transmitter are menu guided and easy to perform.



Infra-red sensor



Catalytic bead sensor



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Specifications

Brand		Dräger
Model		Polytron 2 XP Ex
Ranges		0 to 10% LEL 0 to 100% LEL
Display		Three-digit LCD
Signal output		4 to 20 mA
Power requirements		16 to 30 Vdc, 3-wire
Operating temperature	Catalytic bead sensor	-40° to 175°F (-40° to 80°C)
	IR sensor	-40° to 150°F (-40° to 65°C)
Operating pressure		20.7 to 38.4 inHg (700 to 1,300 mbar)
Operating humidity		0 to 100%
Weight	Catalytic bead sensor	3.3 lb (1.5 kg)
	IR sensor	4.2 lb (1.9 kg)
Repeatability		<0.12 in. (<3 mm)
Dimensions	Catalytic bead sensor	6.5 x 4.5 x 4 in. (165 x 115 x 100 mm)
	IR sensor	11.5 x 4.5 x 4 in. (295 x 115 x 100 mm)

Certifications

Enclosure	NEMA 4X and 7
	IP 66
	3/4-in. NPT female conduit entry
Catalytic bead sensor	ATEX II 2GD EEx d IIC T6/T4
	-40° ≤ Tamb ≤ +104° / +176°F (-40° ≤ Tamb ≤ +40° / +80°C)
IR sensor	ATEX II 2GD EEx d IIC T6/T4
	-40° ≤ Tamb ≤ +104° / +149°F (-40° ≤ Tamb ≤ +40° / +65°C)

