

Polytron 8700 IR

Series: Polytron 8000



Dräger Polytron 8700 IR is a Polytron 8000 series transmitter that detects combustible gases in the lower explosion limit (LEL) with an infrared Dräger PIR 7000 sensor. Alongside a 3-wire 4–20 mA analogue output it offers HART, Modbus and fieldbus, with a relay option. 4-second response time, SIL 2, IP65/66/67 and operation from -40 °C to 77 °C; ATEX and IECEx approved.

- 01 Infrared Dräger PIR 7000 sensor for combustible gases in the LEL range
- 02 4–20 mA, HART, Modbus and fieldbus outputs; relay option
- 03 4-second response time, SIL 2 (IEC 61508)
- 04 Epoxy-coated aluminium or SS 316L stainless steel housing, IP65/66/67
- 05 ATEX, IECEx, UL and CSA approvals

Technical data

BRAND	Dräger
MODEL	Polytron 8700 IR
GASES	Ex / LEL · CH ₄
SENSOR TECHNOLOGIES	Infrared
OUTPUTS	4–20 mA · Relay · HART · Modbus · Fieldbus
RESPONSE TIME	4 seconds
DISPLAY	yes
SIL LEVEL	SIL 2
IP RATING	IP65/66/67
OPERATING TEMPERATURE	-40–77 °C
POWER SUPPLY	10 to 30 V DC, 3-wire
HOUSING	Epoxy coated copper-free aluminum or stainless steel SS 316L

OTHER APPROVALS	ATEX, IECEx, UL, CSA, CE marking, GOST (EAC), Performance approval, Shipping approval
DIMENSIONS	28x15x13 cm (H × W × D)
WEIGHT	12.57 lb (5.7 kg)
COMPATIBLE ITEMS	Dräger PIR 7000 Typ 334 (NPT) · Dräger PIR 7000 Typ 340 (NPT)

Standards

STANDARD	PERFORMANCE
IEC 61508-1-3	SIL 2

Certificates

ATEX	ATEX
IECEX	IECEX
OTHER	UL
OTHER	CSA
OTHER	CE marking
OTHER	GOST (EAC)
OTHER	Performance approval
OTHER	Shipping approval