

Polytron 8100 EC

Series: Polytron 8000



Dräger Polytron 8100 EC is a gas transmitter from the Polytron 8000 series that monitors toxic gases or oxygen with an electrochemical DrägerSensor. Alongside a 3-wire 4–20 mA analogue output it provides HART, Modbus and fieldbus communication, with relays available. SIL 2, IP65/66/67 protection and operation from -40 °C to 65 °C; ATEX and IECEx approved.

- 01** Electrochemical DrägerSensor for H₂S, NH₃, H₂, CO, O₂ and more
- 02** 4–20 mA, HART, Modbus and fieldbus outputs; relay option
- 03** SIL 2 (IEC 61508)
- 04** Epoxy-coated aluminium or SS316 L stainless steel housing, IP65/66/67
- 05** ATEX, IECEx, UL, CSA and MED shipping approval

Technical data

BRAND	Dräger
MODEL	Polytron 8100 EC
GASES	H ₂ S · NH ₃ · H ₂ · CO · O ₂
SENSOR TECHNOLOGIES	Electrochemical
OUTPUTS	4–20 mA · Relay · HART · Modbus · Fieldbus
DISPLAY	yes
SIL LEVEL	SIL 2
IP RATING	IP65/66/67
OPERATING TEMPERATURE	-40–65 °C
POWER SUPPLY	10 to 30 V DC, 3-wire
HOUSING	Epoxy coated copper-free aluminum or stainless steel SS316 L
OTHER APPROVALS	ATEX, IECEx, UL, CSA, CE marking, GOST (EAC), Performance approval (O ₂ , H ₂ S), Shipping approval (MED)

DIMENSIONS	28x15x13 cm (H × W × D)
WEIGHT	11.02 lb (5 kg)
COMPATIBLE ITEMS	Dräger SensorAlive H2S · DrägerSensor H2S · DrägerSensor H2S HC · DrägerSensor NH3 TH · DrägerSensor NH3 FL · DrägerSensor NH3 HC · DrägerSensor NH3 LC · DrägerSensor NH3 TL · DrägerSensor H2 · DrägerSensor MEC H2 HC · DrägerSensor CO · DrägerSensor CO LH · DrägerSensor CO LS · DrägerSensor O2 LS · DrägerSensor H2O2 HC · DrägerSensor H2O2 LC · DrägerSensor OV 1

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 (O2, H2S)
OTHER	Shipping approval (MED)