

## DRAEGER

## Dräger Polytron® 8200 CAT Ex



The Dräger Polytron® 8200 CAT is an advanced explosion proof transmitter for the detection of flammable gases in the lower explosion limit (LEL). It uses a catalytic bead DrägerSensor® Ex ... DD, which will detect most flammable gases and vapors. Besides a 3 wire 4 to 20 mA analog output with relays, it also offers Modbus and Fieldbus protocols making it compatible with most control systems.

### Benefits

- Fast and stable – the DrägerSensor® Ex ... DD
- Easy device management via digital communication
- Same design, same operating principle in the entire Polytron 8000 series
- Three relays for controlling external equipment
- Robust Aluminum or Stainless Steel XP housing options
- Remote sensor up to 100'
- Data logger

### Technical Data

#### Dräger Polytron® 8200 CAT Ex

**Type** Explosion proof / flameproof enclosed transmitter ("d")

**Gases measured:** Flammable gases and vapors **Measuring range** 0 to 100% LEL

**Power** 10 to 30 V DC, 3-wire **Display** Backlit graphic LCD; 3 Status LEDs (green/yellow/red)

**Analog Output** 4 to 20 mA ; **Digital Output** HART®; (optional) PROFIBUS® PA, FOUNDATION fieldbus™ H1 and Modbus RTU

**Relay specification (option)** 2 alarm relays, 1 fault relay, single-pole two-way contact 5 A @ 230 VAC, 5 A @ 30 VDC, resistance-bound

**Temperature** -40 to 80°C (-40 to 176°F) without relay ; -40 to 70°C (-40 to 158°F) with relay

**Pressure** 20.7 to 38.4 inch Hg / 700 to 1,300 mbar; Humidity 0 to 100% r. h., non-condensing

**Transmitter housing** Epoxy coated copper-free aluminum or stainless steel SS316L **Sensor housing** Stainless steel 303

**Enclosure** protection type NEMA 4X & 7, IP65/66/67 **Cable entry** point 3/4" NPT threaded holes or M20 cable gland

**Dimensions** (H x W x D), approx. 11.0" x 5.9" x 5.1"/280 x 150 x 130 mm

**Weight** approx. Aluminum 4.9 lbs/2.2 kg; SS316L 8.8 lbs/4.0 kg

### Approvals

**UL** Class I, Div 1, Groups A, B, C, D; Class II, Div 1, Groups E, F, G; Class I, Zone 1, Group IIC; T-Code T6/T4

**CSA** Class I, Div 1, Groups A, B, C, D; Class I, Zone 1, Group IIC; T-Code T6/T4 CSA C22.2 No. 152

**IECEx** 4-20-mA HART® Ex db IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80°C; II 2G Ex db e IIC T6/T4 Gb

**ATEX** II 2G Ex db ia IIC T6/T4 Gb, -40 ≤ Ta ≤ +40/+80°C;

**CE markings** ATEX (Directive 2014/34/EU) Electromagnetic Compatibility (Directive 2014/30/EU) Low Voltage (Directive 2014/35/EU)

**Shipping approvals** DNV GL, ABS, MED approval B Certificate no. 61549/ 50 – 13 HH,

MED approval D Certificate no. 12031 – 10 HH Performance approval Certificate no. BVS 13 ATEX G 001 X

**SIL 2** certified by TUEV Sued Certificate no. Z10 1207 53474 013

### Ordering Information

Dräger Polytron® 8200 CAT DD d A 4-20/HART®	83 44 439
Dräger Polytron® 8200 CAT DD d A 4-20/HART® relay	83 44 440
Dräger Polytron® 8700 334 d S 4-20/HART®	83 44 610
Dräger Polytron® 8700 334 d S 4-20/HART® relay	83 44 611
Magnetic wand for Menu manipulation	45 44 101
Pipe mount bracket	45 44 198
Duct mount kit	68 12 725
Splash guard	68 12 510
Gassing adapter PE incl. tubing (for calibration and bump test)	45 09 314