



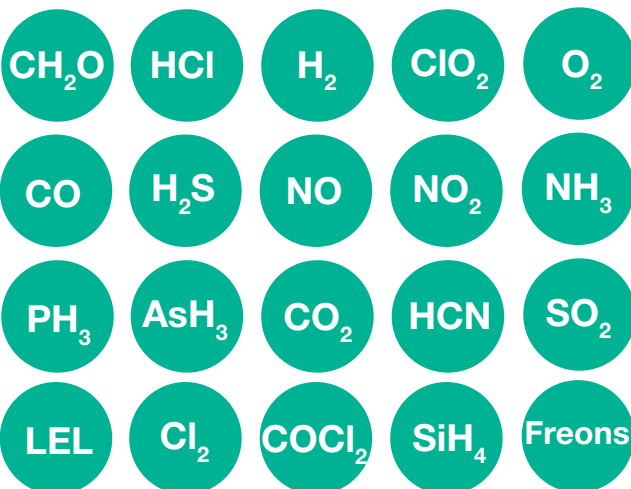
## OLCT 100

### Fixed Gas Detector

Designed for the detection of explosive gases, toxic gases or oxygen, this detector comes with a Wheatstone bridge output (OLC 100) or 4-20mA output (OLCT 100). Whatever your application Oldham offers a solutions: catalytic, electrochemical, semiconductor, or poison control version. ATEX approved, these detectors are available in explosion safe or intrinsically safe versions.

With a 3-year warranty on the sensor and electronics, the OLCT 100 XP-IR will provide reliability and extended lifetime.

### Gases analysed



“Reduced maintenance with pre-calibrated sensors for immediate detection of LEL, toxic gases & oxygen”

**OLCT 100 XP:** Explosion-proof version and equipped with a catalytic, electrochemical or semiconductor sensor, for detection of explosive, toxic gases or oxygen.

**OLCT 100 IS:** Intrinsically safe version and equipped with an electrochemical sensor for detection of toxic gases or oxygen.

**OLCT 100 XP IR:** Explosion-proof version and equipped with an infrared sensor for detection of explosive gases or CO<sub>2</sub>.

**OLCT 100 XP HT:** High temperature explosion-proof version, for detection of explosive gases up to 200°C.

## KEY FEATURES

- Electronics protected from shocks or dust when enclosure is opened for maintenance or commissioning
- SIL 2 rating and IR sensors offer a longer life expectancy
- Aluminium or stainless steel casing provides rugged design for increased resistance

## Technical Specification

### OLC 100

- Sensor: Catalytic bead
- Dimensions: 138 x 133 x 84mm
- Weight: 0.95kg
- Supply voltage: Only by 3M Controller
- Cable: 3 active wires, shielded cable

### OLC 100 XP

- Sensor: Catalytic bead
- Dimensions: 138 x 133 x 84mm
- Weight: 1kg
- Supply voltage: 15.5 to 32 VDC 110mA
- Cable: 3 active wires, shielded cable

### OLC 100 XP IR

- Sensor: Infrared
- Dimensions: 179 x 138 x 84mm
- Weight: 1.1kg
- Supply voltage: 13.5 to 32 VDC 60mA
- Cable: 3 active wires, shielded cable

### OLC 100 XP

- Sensor: Electrochemical
- Dimensions: 179 x 138 x 84mm
- Weight: 1.1kg
- Supply voltage: 10 to 32 VDC, 23.5 mA
- Cable: 2 active wires, shielded cable

### OLC 100 XP HT

- Sensor: Catalytic bead
- Dimensions: 150 x 138 x 84
- Weight: 1.8kg
- Supply voltage: 15.5 to 32VDC 100mA
- Cable: 3 active wires, shielded cable

Rev 2.1 June 18

### OLC 100 100 IS

- Sensor: Electrochemical
- Dimensions: 179 x 138 x 84mm
- Weight: 1.1kg
- Supply voltage: 15.5 to 32VDC 23.5mA
- Cable: 2 active wires, shielded cables

### OUTPUT SIGNAL

- Usual source encoded from 0 to 23 mA (not isolated)
  - linear 4 to 20 mA output, reserved for measurement
  - 0 mA : electronic fault or no power supply
  - < 1 mA: fault
  - 2 mA: initialisation mode
  - > 23 mA: out of range

### MATERIAL

- Epoxy-coated aluminium housing (Inox 316L optional).
- 316 stainless steel sensors

### APPROVALS

- Compliant with European directive ATEX 94/9/CE and with IECEx schedule for explosion-proof detectors.
- OLC 100, OLCT 100 XP, OLCT 100 XP IR : ATEX II 2 GD / Ex d IIC T6 Gb / Ex t IIIC T85°C Db IP66
- OLCT 100 IS Aluminium : ATEX II 2 GD / Ex ia IIC T4 / Ex iaD 21 T135°C IP66
- OLCT 100 IS Stainless Steel : ATEX II 1 GD / Ex ia IIC T4 / Ex iaD 20 T135°C IP66
- SIL 2 according to EN 50402 / EN 61508 for catalytic and infrared versions, O<sub>2</sub>, CO, NH<sub>3</sub> and H<sub>2</sub>S
- Metrological performances according to EN/IEC 60079-29-1
- Electromagnetic compatibility according to EN 50270

**a1-cbiss Ltd, 5 Valiant Way, Lairdside  
Technology Park, Tranmere, Wirral, CH41 9HS**  
**T: +44(0)151 666 8300**  
**F: +44(0)151 666 8329**  
**E: sales@a1-cbiss.com**  
**W: www.a1-cbiss.com**

