

BENEFITS

- Low cost
- Low power, long life due to non-depleting sensing principle
- Compact footprint

TECHNICAL SPECIFICATIONS

Supply voltage (Vs)		5V _{DC} (4.5V _{DC} min. —5.5V _{DC} max.)
Supply current (Is)		<7.5mA (streaming one sample per second), <20mA Peak
Output Type		3.3V TTL level UART (5V tolerant)
Temperature		
Operating:		+10°C to +45°C
Storage:		-30°C to +60°C
Humidity		0—99% Rh (non-condensing)
Barometric pressure range		
	LOX-01	100—1400mbar
	LOX-02	500—1200mbar

✓ OUTPUT VALUES^b

Oxygen range (LOX-02) Oxygen pressure range Response time Accuracy ppO₂

Temperature Pressure (LOX-02) O₂ (LOX-02)

Resolution ppO₂ Temperature Pressure (LOX-02) O₂ (LOX-02)

Lifetime

Other sensor options available on request, email: technical@sstsensing.com

Need help? Ask the expert Tel: + 44 (0)1236 459 020 and ask for "Technical"





The sensor housing can be cleaned using a damp cloth. Do NOT immerse the sensor in any cleaning media. At ambient conditions. All performance measurements are at STP unless otherwise stated. Following extreme temperature fluctuations,

re-calibration may be required.

0-300mbar ppO2 T90 < 30s (typical)

0-25% O₂

< 2% FS Indication only ±5mbar Determined by ppO₂ & pressure accuracy

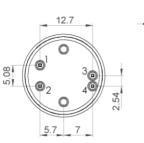
0.1mbar 0.1°C 1mbar 0.01% > 2 years

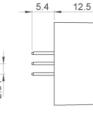




OUTLINE DRAWING

All dimensions shown in mm. Tolerances = ± 0.5 mm.





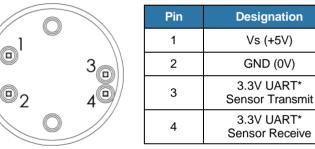


Top View

Bottom View

Side View

ELECTRICAL INTERFACE



5V tolerant.

Connection: Four gold-plated pins (0.64mm²) on a 2.54mm grid for PCB mounting via sockets or hand soldering using no-clean flux.

Note: If hand soldering, recommended iron temperature is 370°C for < 3s per pin.

Note: Do NOT put the sensor through a PCB washing process.

Note: Always apply power to sensor pins 1 and 2 before attempting to communicate on pins 3 and 4.

The sensor should be treated as an electronic component and handled using the correct ESD handling precautions.

Do not exceed maximum ratings and ensure sensor(s) are operated in

Carefully follow all wiring instructions. Incorrect wiring can cause

Failure to comply with these instructions may result in product

These products must not be used in safety applications where

product failure could cause injury or risk to life



SENSOR CONSTRUCTION

accordance with their requirements.

permanent damage to the device. Do NOT use chemical cleaning agents.

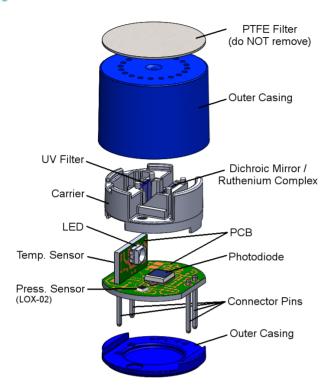
CAUTION

damage.

As customer applications are outside of SST Sensing Ltd.'s control, the information provided is given without legal responsibility. Customers should test under their own conditions to ensure that the equipment is suitable for their intended application.

For technical assistance or advice, please email: technical@sstsensing.com

General Note: SST Sensing Ltd. reserves the right to make changes to product specifications without notice or liability. All information is subject to SST Sensing Ltd.'s own data and considered accurate at time of going to print.

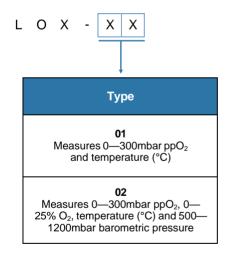


ORDER INFORMATION

11 Generate your specific part number using the convention shown below. Use only the numbers that correspond to the

sensor

option you require - omit those you do not.





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