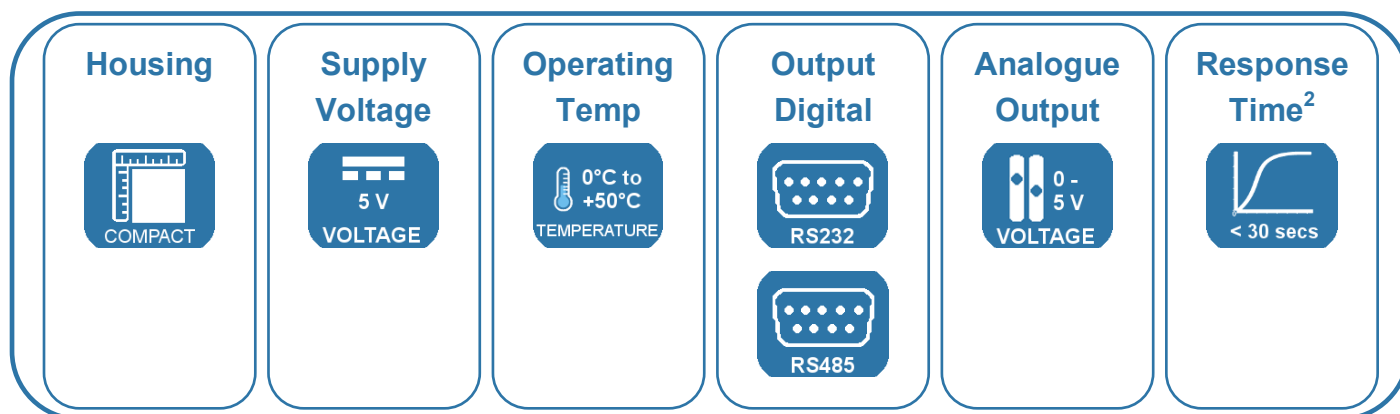


DATA SHEET

LuminOx O₂ Sensors *LuminOx Evaluation Interface Board*

FEATURES

- Allows quick and easy evaluation of the LuminOx sensor¹ with minimum effort and / or design work
- Interface mounted screw terminals for easy wiring
- The interface simultaneously provides three outputs:
 - RS232 (serial interface voltage levels)
 - RS485 (Modbus RTU) port allows multiple sensors to be addressed on a bus
 - 0—5V analogue output for basic measurements of oxygen only



BENEFITS

- Converts the LuminOx TTL level RS232 output into three standard industrial outputs
- Auto detects ppO₂ or O₂% variants of LuminOx sensor

PERFORMANCE SPECIFICATIONS³

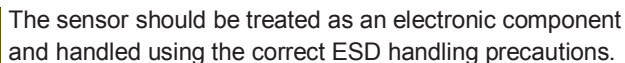
LuminOx sensor compatibility	0—25% (O ₂ version) 0—300mbar (ppO ₂ version)
Resolution	
Digital outputs	0.01% / 0.1mbar
Analogue output	0.01V

TECHNICAL SPECIFICATIONS

Supply voltage (Vs)	4.75—5.25V _{DC}
Supply current (Is)	<50mA
Output Type	RS232, RS485 (Modbus RTU) and 0—5V
Temperature	
Operating:	0°C to +50°C
Storage:	0°C to +60°C

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





1. RS232 Rx and Tx and RS485 A & B (pins 5, 6, 8 and 9) are referenced to the RS232/RS485 GND (pin 7). A connection should be made between pin 7 and the reference or common connection of the RS232 serial port or RS485 Bus.
2. Care should be taken when connecting the RS485 A & B connections to your system. The EIA-485 signalling specification states that signal A is the inverting or '-' pin and signal B is the non-inverting or '+' pin. This is in conflict with the A & B naming used by a number of differential transceiver manufacturers, including the transceiver used in the OXY-LC-485 interface. Therefore always ensure the '+' of the OXY-LC-485 interface is connected to the '+' input of the RS485 Bus and the '-' of the OXY-LC-485 interface is connected to the '-' input of the RS485 Bus.



Specify the part number shown below when ordering.

L O X - E V B



Pin	Designation
1	Vs (+5V _{DC})
2	GND (0V)
3	0—5V GND (0V)
4	0—5V Signal
5	RS232 Rx
6	RS232 Tx
7	RS232/RS485 GND (0V)
8	RS485 A (+)
9	RS485 B (-)



Failure to comply with these instructions may result in product damage.



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.