



Features

The Easy Board electronic transmitter offers the customer a quick means to use EC-Sense sensors. The sensors providing a stable voltage, digital result, onboard temperature measurement and self test capability.

EasyBoard

Technical Specification

Part Number	Input Signal Range	Output Signal	Describe
03-EB-Pos-01-01	5 μ A	0.02-4.8V	For ES1, ES4, ,EC4 Positive signal sensor. Include Temperature sensor on the board.
03-EB-Pos-02-01	25 μ A	0.02-4.8V	A functional Self Test of the sensor.
03-EB-Pos-03-01	100 μ A	0.02-4.8V	
03-EB-Neg-01-01	5 μ A	0.02-4.8V	For ES1, ES4, ,EC4 Negative signal sensor. Include Temperature sensor on the board.
03-EB-Neg-02-01	25 μ A	0.02-4.8V	A functional Self Test of the sensor.
03-EB-Neg-03-01	100 μ A	0.02-4.8V	
03-EB-O2-03-01	100 μ A	0.02-4.8V	For ES1-02, ES4-02 Oxygen sensor

Performance

Sensor Type	Compatible with ES1, ES4 and EC4
Detectable Gases	See product range datasheet
Measuring Principle	Electrochemical with electronic amplification
Contacts	8 pins solderable with care
Standard Range	See sensor datasheet
Output Offset	0.002Vdc
Signal Out	0.002 - 4.8Vdc
Adjustment	3Vdc = sensor measurement range (e.g. for CO, 3V=500 ppm)
Digital Output	i C-bus output (SCL (pin1)/SDA (pin2))
Temperature Measurement	-40°C to 125°C -40°C = 100 mV 125°C = 1750 mV
Input Voltage	+5 Vdc (see note)
Operating Temperature Range	-20°C to 50°C
Storage Conditions	0°C to 20°C
Operating Pressure Range	800 to 1200 hPa
Humidity Range	15-95% RH non-condensing
Weight	

The Easy Board can be used with a supply voltage of 2.4 – 5 Vdc. If a supply voltage of < 5 Vdc is used, the output voltage will reduce correspondingly.

A/D Converter Microchip MCP 3321 AOT/EOT

Current consumption typically 0.8 mA (electronics only)

The Lifetest signal performs a sensor check. Start the Lifetest by applying "ground" to pin 6. A current signal is generated in the sensor and this can be measured at pin 5. This pulse generation runs for 1 second.

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