

ZELLPPELL FLAMMABLE SENSOR + 4-20mA TRANSMITTER

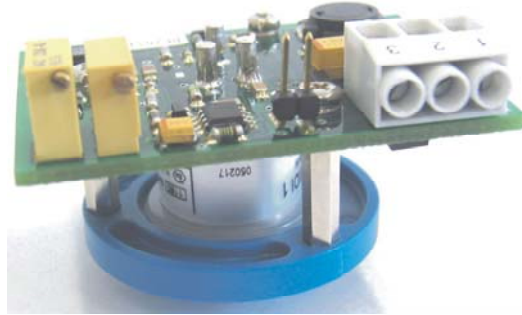


Figure 1. Zellopell LEL sensor + 4-20mA transmitter showing zero and span potentiometer and screw terminals, with installation ring and distance bolts.
Part no. 2112B1000. Measuring range: 0-100% LEL



Figure 2. LEL sensor plugged on 4-20 mA transmitter

SPECIFICATION

Principle:	electro-catalytic
Operation:	continuous
Gas entry:	by diffusion
Measuring range:	0-100% LEL of flammable gases
Response time t90:	< 10 sec
Temperature range:	-20 °C up to +40°C
Humidity range:	15-90% relative humidity, non-condensing
Long term zero drift:	smaller +/- 5% LEL / year
Long term span drift:	smaller +/- 2% LEL / year
Power supply:	24 V d.c.
Dimensions:	41 x 56 mm, 26 mm high



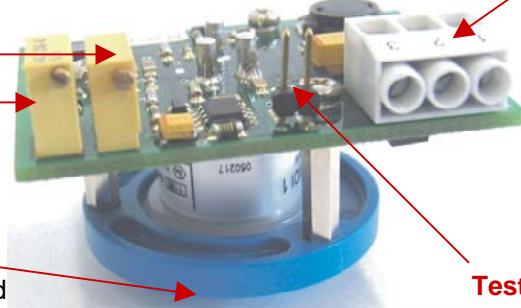
ZELPELL FLAMMABLE SENSOR + 4-20 mA TRANSMITTER

Potentiometer

for calibration adjustment

Zero

Span



Screw terminals

Terminals 1 and 3 are for the 24V d.c. power supply (+/-10%). Terminal 1 is +24V. Terminal 3 is 0V. The measuring signal +4-20mA output is available at terminal 2.

Test Gas

For calibration, flow required level of gas through a test flow cap. Test Gas Cap and Calibration Gases also available from Euro-Gas. Please ask for details

Test pins for one man calibration; 0.4 – 2.0 volts signal output

Figure 3. Instructions
Zelpell LEL sensor
with 4-20mA transmitter
and installation kit.
Part no. 2112B1000



Figure 4. Test gas cap
Part no. 2112B1010

Two wire screw terminal: The transmitter has a three wire screw terminal to connect a 24V d.c. power supply. Terminal 1 is for +24V. Terminal 3 is for 0V.

On terminal 2 you will receive the 4-20 mA signal output. When there is zero LEL concentration, you will receive a 4mA signal. With an 100% LEL concentration, you will receive a 20mA signal.

The transmitter is precalibrated. The standard calibration is on Methane CH_4 . An optional calibration is on Propane C_3H_8 . Please specify your preference when ordering.

Potentiometer: This is used for adjusting the signal to the correct value if you apply a test gas concentration to the transmitter and it gives an incorrect signal.

Test pins: The two test pins allow for one man calibration. Please kindly note that the signal here is not 4-20 mA but **0.4 – 2.0 Volts**.



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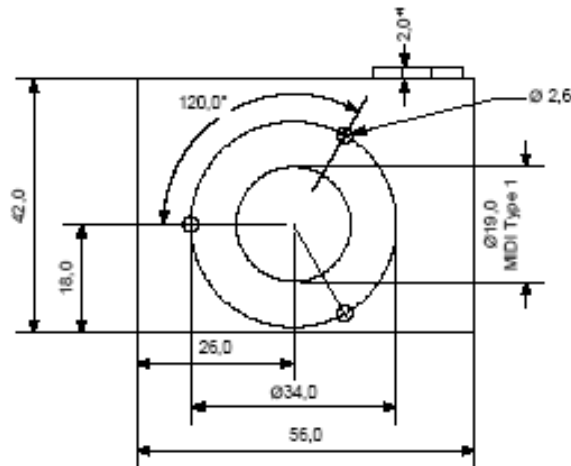


Figure 5. Dimensions of Zellpell LEL sensor with 4-20mA transmitter

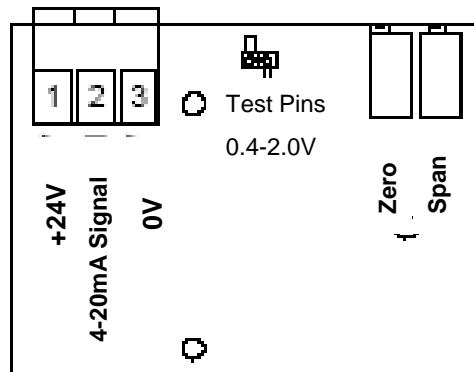


Figure 6. Transmitter screw terminals: 1 and 3 for power supply 24V d.c.
The measuring signal 4-20mA is available at terminal 2.

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