

# 4-20mA BOARD FOR SURECELL

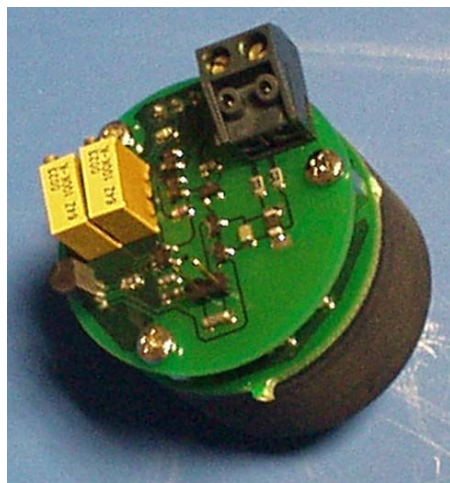


Fig.1 4-20 mA p.c.b. with zero and span potentiometer, screw terminals with installation ring and plugged into SureCell CO (H) or H<sub>2</sub>S (L) or Cl<sub>2</sub> sensor

- With SureCell CO (M): Range up to 1000 ppm •
- With SureCell H<sub>2</sub>S (L): Range up to 200 ppm •
- With SureCell Cl<sub>2</sub>: Range up to 20 ppm •

Output signal: 4 – 20 mA using two-wire technology

## Features

Electronic p.c.b.  
designed to equivalent sensors

Measuring signal 4 – 20 mA

Calibration on required range

## User benefits

Immediate evaluation of  
electrochemical SureCells

Standard interface

Equivalent to specification



# 4-20mA BOARD FOR SURECELL

## SPECIFICATION

<b>Measuring principle:</b>	electrochemical
<b>Operation:</b>	continuous
<b>Gas entry:</b>	by diffusion
<b>Range:</b>	CO: calibratable up to 1000 ppm CO f.s.d. H <sub>2</sub> S: calibratable up to 200 ppm H <sub>2</sub> S f.s.d. Cl <sub>2</sub> : calibratable up to 20 ppm Cl <sub>2</sub> f.s.d.
<b>Repeatability:</b>	CO: < ± 3% of signal H <sub>2</sub> S: < ± 3% of signal Cl <sub>2</sub> : < ± 5% of signal
<b>Response time:</b>	CO: t <sub>90</sub> < 30 sec H <sub>2</sub> S: t <sub>90</sub> < 10 sec Cl <sub>2</sub> : t <sub>90</sub> < 60 sec
<b>Cross sensitivity:</b>	see equivalent sensor data sheet
<b>Linearity:</b>	CO: < ± 5% of nominal value H <sub>2</sub> S: < ± 5% of nominal value Cl <sub>2</sub> : < ± 3% of nominal value
<b>Temperature range:</b>	-20°C to +40°C
<b>Humidity range (non-condensing):</b>	15 – 90% r.H.
<b>Operating voltage:</b>	24 V ± 10% d.c.
<b>Output signal:</b>	4 – 20 mA, two-wire; max. load 500 Ω
<b>Zero/span adjustment:</b>	via potentiometer
<b>RFI:</b>	according EN 50082
<b>Storage conditions:</b>	+ 10°C to + 30°C
<b>Mechanical design:</b>	SureCell sensor plugged into p.c.b. and surrounded by installation ring
<b>Dimensions:</b>	40 mm Ø, 55 mm high
<b>Part no:</b>	CO: 2112B1022 H <sub>2</sub> S: 2112B1015 Cl <sub>2</sub> : 2112B1035
<b>Accessories:</b>	Installation kit. Part no: 2112B1022 Test gas flow cap. Part no: 2112B1010

