

4-20mA BOARD FOR SURECELL

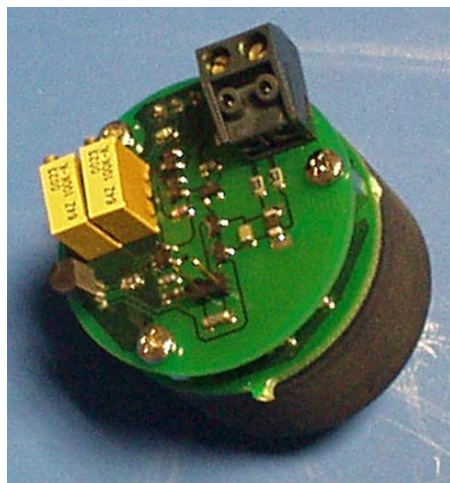


Fig.1 4-20 mA p.c.b. with zero and span potentiometer, screw terminals with installation ring and plugged into SureCell CO (H) or H₂S (L) or Cl₂ sensor

- With SureCell CO (M): Range up to 1000 ppm •
- With SureCell H₂S (L): Range up to 200 ppm •
- With SureCell Cl₂: 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

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

