

## PCMM02S Module Set for Silicon Sensor

### Features

- Stock & production: Full scale span calibration, single production available, mass stocking.
- Easy adjustment by buttons: On-site span changing by LCD module buttons free from standard pressure source.
- High accuracy: For intelligent board, AD accuracy > 20 bits, DA accuracy > 16 bits.
- Electrical isolation: >1500VDC.
- Good stability: Linearity better than 0.05% (with sensors), temperature compensation accuracy better than 0.5%.
- High reliability: Restore factory value by button in case of data chaos.
- Excellent price-performance ratio: good performance with economical heading circuit board.
- Communication protocol: HART communication protocol option.



### Overview

PCMM02S Module Set for Silicon Sensor adopts intelligent piezoresistive silicon circuit board to replace the original 4~20mA analog board. With the main body Microcontroller CPU, PCMM02S is capable to do logical operation and programming. It combines analog and digital circuit in one machine to output analog signal. Meanwhile, HART protocol signal is superimposed on the 4~20mA analog signal. Parameters configuration and compensation of transmitters can be done by buttons, HART hand operator and HART configuration program, etc, improving the accuracy of transmitters. PCMM02S provides constant current or voltage excitation for sensors, supporting standard sensors of diffused silicon, piezoresistive ceramic, single crystal silicon and level sensors. It is applicable to standard 3051 housing.

### Technical parameters

Supply power	DC12-32V (DC 24V suggested)
Matching sensor	Diffused silicon sensors, strain gauges, level sensors, etc.
Sampling rate	>20times/s
Display and bits	LCD with backlight, display 5 bits, with 4 decimal places
Display interface	English or Chinese operation interface, displaying pressure, temperature/current/percentage (interactive display) and 0-100% analog display
Display units	Various common units
Output resolution	1uA
Temp. compensation accuracy	-30℃~70℃, complete machine accuracy better than 0.5% (including accuracy of sensor)
Linearity accuracy	Complete machine linearity better than 0.2% (Multi-point calibration available as required)
Stability	0.2%/Year
Anti-disturbance	Power isolation, signal isolation (magnetic isolation), electrical isolation



Range ratio	100:1
Circuit protection measure	Current limiting protection, reverse polarity protection
Circuit design	Intrinsic safety
Isolation range	>200MΩ
Communication protocol	Private protocol
Commissioning method	by buttons on LCD head, PC software, hand device
Circuit board size	Diameter 61mm, positioning hole center distance 55.14mm (for pressure and level transmitters with 3051 housing)

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