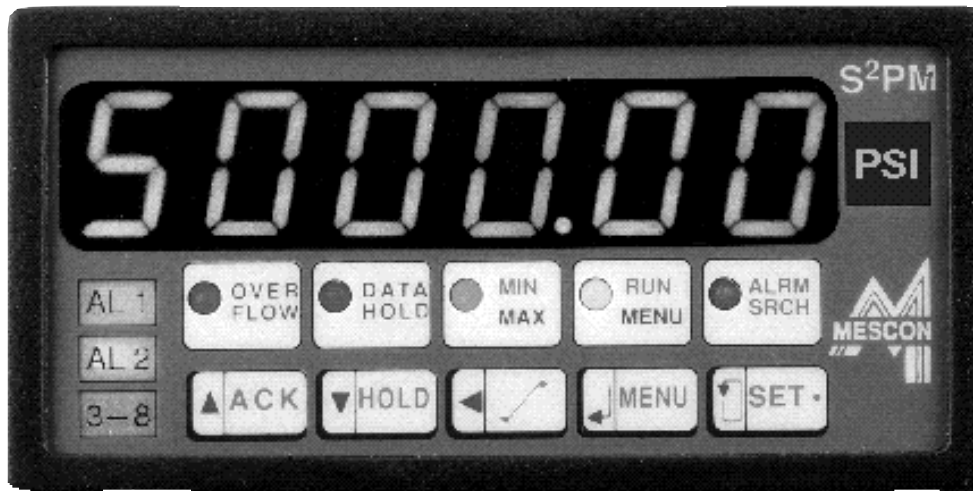


# S<sup>2</sup>PM Super Smart Digital Panel Display

μP Based

## Series 2000



### TYPICAL APPLICATIONS:

- Process Indication.
- Proportional control.
- Batch Control.
- Multi-level alarm.
- Multi-step processing.
- Flow Monitoring
- Level Control

### STANDARD FEATURES:

- Ultimate speed vs. resolution
- 20 Bit Delta-Sigma A/D conversion
- Up to 50 Conversions per second
- Accepts Thermocouples, RTD's, DCmA, DCmV, Potentiometric, Resistance or 2-Wire Xmtr inputs
- Scalable (6-digit) Display, Input & Output
- 8 Multi-color LED's provide comprehensive display of instrument status and alarm conditions
- Fully programmable 2 alarm set-points with SPDT relay output
- Peak, valley, data-hold, square-root, and totalizing functions
- Multi-point custom and built-in linearization
- 28VDC power supply output for 2-wire Xmtr
- Power failure memory protection
- Dual Input capability and math manipulation

### OPTIONS:

- Up to a total of 8 alarm setpoints with relay outputs and individual parameter settings.
- Isolated, scalable analog output in current or voltage mode.
- Point-to-point or multi-drop isolated communication (RS232 or RS485)
- Color changing display for alarm visualization and visual remote status indication



**NO WIRES.  
NO JUMPERS.  
NO SCREWDRIVERS\***

This exceptional product integrates high technology microprocessor system with a unique analog circuit design to yield an easy to use instrument with very high resolution, excellent accuracy, and the ability to interface with most industrial sensors. It has a 6 digit LED numeric display that can be scaled to any engineering units. During programming, the display turns to alpha-numerics for prompting and message calling in the various menu modes.

The S<sup>2</sup>PM configuration is 100% software driven. It is configured exclusively via the front panel keyboard for input type, display scaling, decimal point selection, peak/valley reading, and individually set relay control parameters for each set point (Hi-Lo, On & Off delay functions, Latching/Non-Latching, and Hysteresis).

\* For most inputs.



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Web: [www.mescontec.com](http://www.mescontec.com)

# S<sup>2</sup>PM Super Smart Digital Panel Display

## µP Based

# Series 2000

### SPECIFICATIONS:

Linearity .....±0.01% max (±0.005% typical)  
 Power Supply .....230 or 115V, 50/60 Hz; 24VDC ±20%  
 Excitation for 2-wire transmitter .....28VDC / @27mA  
 Dimensions .....1/8 DIN 96x48x155mm

### INPUTS:

Pt-100 .....2, 3, & 4-wire; Pt-1000; Cu-10  
 Thermocouples .....E, J, K, R, S, T, N, B, C  
 Potentiometer .....50 ohm to 20 Kohm  
 2-wire transmitter .....4 - 20 mA  
 DCmV ..... 0 to ±1000 mV  
 DCmA ..... any range within 0 to ±50mA

### PROGRAMMING:

Via Front Panel .....5-button panel keyboard  
 Procedure ..... Prompting display messages  
 Modes ..... User, operator, and service  
 Conversion Time .....20mS typical, 120mS max.

### DISPLAY FEATURES:

Types .....Red LED, 0.56" high; Tri-color, optional  
 Resolution ..... Full 6 Digits  
 Range ..... -99999 to 999999  
 Decimal Point ..... Programmable or Floating

### SET POINT FEATURES:

Number of Points .....2 built-in, Expandable to 8  
 Set Point Indication .....3 RED/GREEN status LEDs  
 Relay Outputs .....2 SPDT, 220V rating  
 Modes ..... High/Low, Latching, Non/Latching  
 Hysteresis ..... In display units, 0-100% of range  
 Trip Delay Time ..... Independent Delay-On / Delay-Off

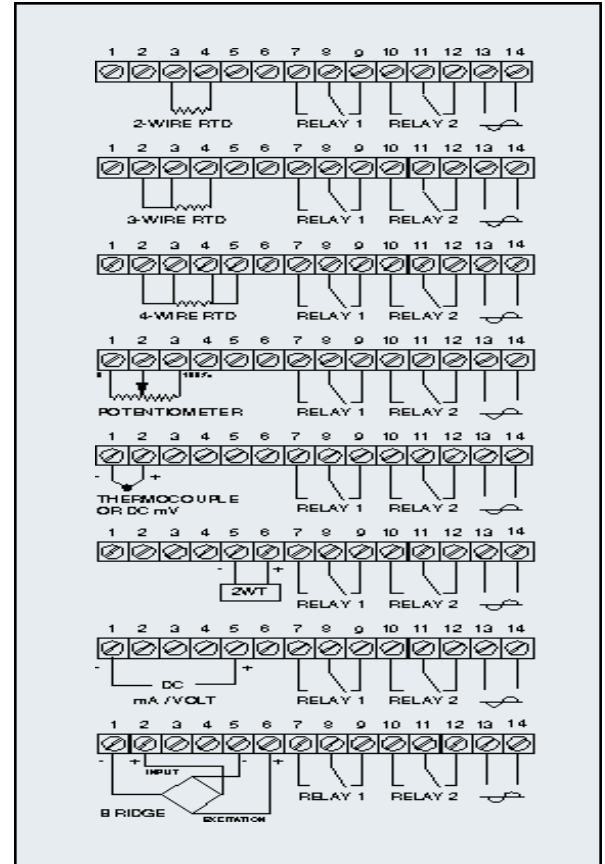
### OPTIONS:

Relay ..... Up to 8 , 220V rating  
 Isol. Analog Output ..... Current: 4-20mA, 0-20mA, 1-5mA, 0-1mA  
 Voltage: 0±1, 2, 5, 10 Volts

### ISOLATED SERIAL COMMUNICATION:

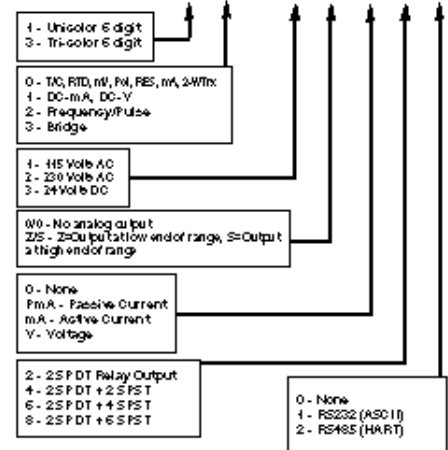
Physical: .....RS232 or RS485  
 Protocol: .....HART, ASCII

*All specifications are subject to change without notice.*



### ORDERING INFORMATION

**S2PM-2-X-X-0-X-X-X-X-X**



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