

20-PT. TEMPERATURE MONITORS WITH SERIAL COMMUNICATIONS DSM-43820/43920

- 20-POINT THERMOCOUPLE MONITOR
- UNIVERSAL FEATURES:
 - 12-30 VDC POWERED
 - RUGGED POWDER-COATED ALUMINUM CASE
 - SEALED MEMBRANE KEYPAD
 - SELECTABLE C OR F READOUT
 - SELECTABLE J OR K THERMOCOUPLES
 - ALARM AND SHUTDOWN OUTPUTS
 - SOLID STATE OUTPUT SWITCHES
 - RS-485 SERIAL COMMUNICATIONS

2 MODELS

- DSM-43820 EXHAUST SYSTEM MONITOR
- DSM-43920 UNIVERSAL TEMPERATURE MONITOR

CSA CERTIFIED

The Altronic DSM-43X20DUS digital setpoint monitors are microprocessor-based instruments designed to monitor up to twenty process temperatures. Power is from any 12 or 24 volt DC source capable of supplying 10 watts. An RS-485 port provides communication capability.

Model **DSM-43820** is designed to be a complete diesel or gas engine exhaust system temperature scanner. Accepting either type J or K thermocouple inputs, points are organized into three groups: Channels 1-16 for engine cylinders with High-I, High-2 and Deviation setpoints; channels 17-18 with High and Differential setpoints; channels 19-20 with High and Differential setpoints. There are three selectable modes for assignment of points to the two solid state outputs.

Model **DSM-43920** is a universal monitor providing four independent setpoints (two high and two low) for each point. All High-1 and Low-1 setpoints trip output switch 1, and all High-2 and Low-2 setpoints trip output switch 2. This allows this version to be used in alarm/shutdown service or virtually any other configuration with the monitored points divided into two groups.

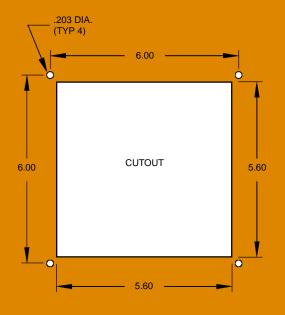
The backlit, alphanumeric LCD display offers all setup and monitored information. The front panel sealed membrane keypad provides easy selection and adjustment of the units, range, setpoints and other configuration data. Any fault trips one of two solid-state output switches; fault information by sequence of occurrence is available on the display and via the serial port. The integral RS-485 port allows the monitored values and status of all channels to be communicated to a PC, PLC or the Altronic DE series annunciators.

The DSM device is housed in a gasketed, powder-coated aluminum case and assembled using stainless steel hardware making them ideal for oilfield or other demanding environmental applications.

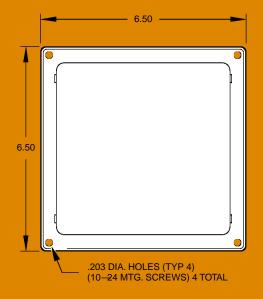


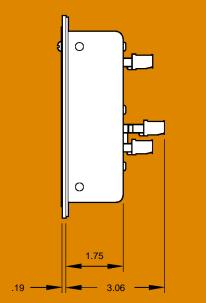


DIMENSIONS



RECESSED MOUNTING





SPECIFICATIONS

POWER REQUIREMENT 12-30 VDC, 100 MA MAX.
THERMOCOUPLE TYPE TYPE J OR K (USER SELECTABLE)
HAZARDOUS AREA CLASSIFICATION CLASS I, DIV. 2, GROUP C and D
INSTRUMENT DISPLAY 2x16 BACKLIT, ALPHANUMERIC
INSTRUMENT RANGE76°F. TO +1472°F. / -60°C. TO +800°C.
INSTRUMENT ACCURACY ±1% OF READING, ±3 UNITS
DISPLAY UPDATE RATE 1/SEC.
OUTPUT SWITCHES
AMBIENT TEMPERATURE RANGE40°F. TO +175°F. / -40°C. TO +80°C.
COLD JUNCTION COMPENSATION AUTOMATIC

TO ORDER

DIGITAL SETPOINT MONITORS, 20 POINTS, TYPE J OR KTHERMOCOUPLE:



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