

"Safeguarding Your Precious Biological Materials"



MPS Multi-Probe Monitor/Alarm

PRODUCT DESCRIPTION:

The MPS series is a 2 - 8 channel NIST-traceable, real-time, temperature verification system with channel independent, user-adjustable low- and high-temperature alarm limits. Easy to setup and intuitive to operate, with optimally positioned temperature probes, the MPS will monitor your process with superlative precision.

The MPS products are highly accurate and reliable temperature monitoring systems widely used in laboratories, hospitals, and food storage facilities.

In addition to the easy-to-read backlit 128 x 64 graphic display, temperature readings are output in real-time via TCP/IP (Ethernet) and can be displayed on any modern web browser. Alternatively, temperature readings can be optionally output as current (4 to 20 mA) or into our PC-based networked ALERT Monitoring System for data logging, statistical process control (SPC), and alert email/SMS text notification.

> **Custom programming and** packaging can be provided to satisfy the monitoring of most measurable physical or chemical properties.



FEATURES:

- Continuously monitors up to 8 NIST-traceably calibrated temperature probes
- -200 °C to +400 °C with variable ranges and probe types
- Easy-to-read backlit 128 x 64 graphic display in °C or °F with variable precision (1°, 0.1°)
- Channel independent adjustable high/low alert condition settings and alarm delay periods
- Tri-color status LEDs for each probe
- Audible alarm with independent alarm mute periods
- Up to 4 temperature output channels: 4 to 20 mA
- Up to 4 SPDT relay contact outputs with independent adjustable relay delay periods
- Optional email and/or text notifications of alert conditions via Ethernet
- Web browser accessible real-time data display and programmability
- Authenticated administrative programming authorization with user and guest access

AVAILABLE OPTIONS:

- Up to 8 NIST-traceably temperature probes
- -200 °C (-328 °F) to +400 °C (+752 °F) with variable ranges and probe types (100/1000-0hm RTD; cryo RTD; Type T. K. J thermocouples, etc.)
- Probe inputs: 4-20 mA, 0 1 V, 0 - 5 V, 0 - 10 V, switch inputs (magnetic door switches, etc.)
- Specialty probes: humidity, CO₃, pressure, positional displacement, etc.
- Up to 4 probe output channels: 4 to 20 mA
- Up to 4 SPDT relay contact outputs with independent adjustable relay delay periods
- Optional email and/or text notifications of alert conditions via Ethernet

PO Box 516, Dover, NH 03821 U.S. Toll Free (866) 496-9424 Tel: (603) 749-9424 Fax (603) 749-9433 E-mail: sales@hampshirecontrols.com www.hampshirecontrols.com







Probe Options (#1 - #8)	Temperature				Voltage	Current	Other
Sensor & Probe 10' (3m) lead, Teflon jacketed, waterproof	100-ohm or 1000-ohm RTD, 4" (102mm) s.s. sheath		Type T, J, or K thermocouple. 3" (76mm) s.s. sheath		Other sensors available: humidity, O ₂ , CO ₂ , pressure, magnetic reed switches (door sensors), digital input, LN2 level sensors, Dewar vacuum breach sensors, other temperature probes, etc.		
Primary Range (°C, other)	-100 to 100 °C		T: -200 to 50 °C K: 0 to 400 °C		0 – 1 V 0 – 5 V 0 – 10 V	4 – 20 mA	
Secondary Range (°F)	-148 to 212 °F		T: -328 to 122 °F K: 32 to 752 °F				
Accuracy (°C, other)	±0.2 °C		±2 °C		Probe type d	ependent	
Accuracy (°F)	±0.4 °F		±4 °F			•	
Display Units	°C or °F		°C or °F		User selectable for each channel, up to 3 characters		
Display Resolution User selectable for each channel, 0 to 3 decimal places, ≤7 characters per channel							
Alarm Frequency Amplitude User-adjustable initial alarm delay period							
Audio 3.0 -	3.6 kHz z flashing red LED	90 dB		ectable audio mute period			
Output Options							
Sing Sing Independent Relay Per Curr	Form A (Form C (Form C (Specify r V, 2 – 10 Receiver	Form A (normally open – NO) Form B (normally closed – NC) Form C (user selectable NO or NC) Form C (user selectable NO or NC), per channel Specify range between 0.2 V and 10 V with a 1:5 ratio. Examples: 1 - 5 V, 2 – 10 V, etc. Receiver powered; requires external loop supply (12 to 36 VDC) 10/100 Base-T, with data accessible via HTTP and/or the T° Sentry					
Ethernet ALER			ERT Monitoring System data logger, when equipped with the MPS erating Program.				
Battery Backup							
3.7V Rechargeable 1150 mAh Li-polymer cell, constant current and voltage charger, automatic recharge							
Load Supply Optional Supply Power Requirements 6 Vdc, 800 mA max Standard 120-240 VAC, US, UL listed 7-24 VAC/DC (special order)							
Mechanical & Environmental Mounting Options Standard: Cabinet top mount with bracket Option 1: Wall mount Option 2: Large display flush/panel mount (special order)							
Dimensions, V	Dimensions, WxHxD 7.0 x 4.0 x 2.0 in. (178 x 102 x 51 mm)						
Weight 1.6 lbs. (711 g) Case Black Bakelite							
Operating Temperature	30 °F)						
Operating Temperature Range -18 to 55 °C (0 to 130 °F) MPS Web Accessible Operating Program Featuring Hardware Requirements							
MPS Web Accessible O Real time data visua Sensor channel com Mathematical and lo Alarm limits and del Email, SMS text set		PC with Ethernet and modern browser					

Note: Not all features and options are compatible.

One-year warranty on all Hampshire Controls products.

About Us: Established in 1975, Hampshire Controls provides standard and custom-designed electronics to the biomedical and industrial markets. In addition to the wide variety of MPS Multi-Probe Monitor/Alarms, our product portfolio includes:

- T° Sentry Model 140 single probe temperature monitor/alarms T° Sentry ALERT Monitoring System data logging
- **TT-150/200** temperature & humidity Wi-Fi transmitters •
- LD-215 Liquid Nitrogen Level Detector/Alarms
- Air Flow Monitors (50 to 2500 FPM)
- **STEDIVOLT SV2005 Line Voltage Controls**
- Customized OEM electronics design and manufacturing
- CO., LN2 CA5000 Freezer Backup Systems ٠
- **TC-12 TEMPCHECK Rapid Response Thermometers** •
- ADM-215 Remote Alarm Delay Modules
- Customized monitoring, alarm notification, and logging •

