

Digi-Sense Thermocouple 12-Channel Thermometer/Logger

This 12-channel scanning stat thermometer with datalogging is perfect for continuous process monitoring for which you need documentation and historical records. Link up to eight units together for expanded channel capacity. Offered in benchtop or wall-mount versions.

- Simultaneously Scans Up to 12 channels, stores and recalls up to 4680 sets of readings with time/date stamp. Each channel has HOLD, STORE, MAX, MIN, RECALL, AVERAGE functions
- Automatic or manual selection of display, record, and output functions
- Accepts any Combination of J, K, T, E, N, B, R, S Thermocouple Probes
- Fully Programmable for T/C Type, Resolution, Temperature Scale (F, C, K, R), Channels Displayed, Scan Rate, Datalogging and print intervals, high/low alarm setpoints, data-output parameters, date, and time
- Bi-directional RS-232 interface for instrument setup and/or data downloading to PC
- Includes Windows™-compatible software that displays real-time data on PC in tabular format, or links output data to spreadsheet programs



▲ **WD-69200-00—Thermocouple thermometer is a scanner and datalogger in one**

T/C inputs are electrically isolated from one another and from data outputs for accurate measurements under varied electrical conditions. You can calibrate each channel separately at one or two points to minimize probe offset, and maximize accuracy; parameter setup and offsets are stored in memory.

Other features: large, 12-character display for excellent visibility, out-of-range and open-probe warnings, audible setpoint alarms. Benchtop model, 5196T, includes parallel printer connection for direct hard-copy output, accepts thermocouple probes with miniconnectors, and is powered via AC or DC supply.

Wall-mount unit, 5197T, has drip-proof housing with all connections at bottom. Accepts probes with stripped ends, uses built-in relays for on/off control, and is AC-only powered.

Each Unit Includes: PC software, power cord, and instructions.

NOTE: T/C probes NOT included.

Specifications

Thermocouple Types:	J, K, T, E, N, B, R, S (in any combination)
Input Connections:	Miniconnectors, bench model; screw terminals, wall-mount model
Temperature Scales:	Fahrenheit, Celsius, Kelvin, Rankine
Resolution:	0.1°/1° selectable up to 999.0°, 1° above 1000°, autoranging below -150°
Basic Accuracy:	±0.1% rdg (may vary depending on T/C type and range)
Display:	12-character alphanumeric LCD, 14 segment, 3/4" high
Display Update Rate:	3 seconds per channel
Scan Rate:	Adjustable from 4 seconds/12 channels to 99 minutes, 59 seconds/12 channels
Alarm Output:	Wall-mount unit only; SPDT high/low relays rated 250 VAC, 2A, or 30 VDC resistive, 2A
Digital Output:	RS-232, ASCII format, 19.2K baud rate, RJ11 connector
Power Supply	
Benchtop Model:	115 or 230 VAC with included adapter, or user-supplied 10–25 VDC or 7–20 VAC
Wall-Mount Model:	100–240 VAC, 50/60 Hz
Size/Weight	
Benchtop Model:	3 x 10 x 7" HWD/3 lbs
Wall-Mount Model:	8 x 11 x 5" HWD/4 lbs

Ordering Information

Order #	Mfg #	Description	Price
MP5196T	WD-69200-00	Scanning Thermometer, Benchtop	
MP5197T	WD-69210-00	Scanning Thermometer, Wall-Mount	
MP5197T-230	WD-69212-30	Scanning Thermometer, Wall-Mount, 230V	

Transcat Accredited Calibration with Data	CALL
Transcat Accredited Calibration without Data	CALL

Hart Scientific Modular Precision Datalogging Thermometer

- For High Accuracy Multiple Sensor Calibration and Evaluation
- RS-232 Port for PC Connection
- Automated Testing and Data Acquisition
- Replaces a Digital Multimeter/Scanner and Reference Thermometer Combination
- Ideal for Pharmaceutical and Metrology Applications
- Reads RTDs, Thermocouples, and Thermistor Probes



1560

Adaptable to Changing Needs

Whether you need a reference thermometer to read a calibrated PRT, SPRT, or thermocouple, just select a plug-in input module to meet your needs. The LCD screen will show you through the thermometer's functions and provide the data to a resolution of 0.0001°C or better.

Start with the 21038T base unit. It houses the display, the user interface, memory, and RS-232. Add up to eight modules to build your custom system. Each module is calibrated individually and stores its own parameters and calibration information independently, but all the data is read from the base unit's display. Probe constants and coefficients are stored in non-volatile memory.

Attachable Modules

The 21039T SPRT input module is designed to read reference grade 25Ω and 100Ω four-wire PRTs and SPRTs. Temperature can be displayed according to ITS-90, IPTS-68, Callendar-Van Dusen, or high order polynomial characterizations. It can also measure and display resistance directly.

The 21039T-2 PRT scanner will read up to eight two-, three-, or four-wire 100Ω PRTs. Temperature display options are the same as those of the 21039T SPRT module.

The 21039T-5 has two input channels, and is designed to read reference grade thermocouple sensors. It can read J, K, T, E, R, S, B, and N, gold-platinum, and mV. Temperature can be displayed using standard or calibrated characterizations. It includes an internal cold junction compensation but external CJC can be used for increased accuracy.

The 21039T-6 will read up to twelve thermocouples and performs identically to 21039T-5 with the exception of inputs and accuracy.

All inputs from all modules are electrically isolated from the base and all other modules.

Each Module Includes: Manufacturer's NIST traceable certificate with test data and instructions.

Specifications

Model 21038T Base Unit				
Automatic Input Sequencing:	1 to 99 channels			
Power Supply:	100 to 240 VAC, 50 to 60 Hz, switchable			
Display:	4.25 x 2.25" LCD graphics, LED backlight, adjustable contrast			
Input Modules:	21039T	21039T-2	21039T-5	21039T-6
Input Channels:	Two	Eight	Two	Twelve
Range:	0 to 400Ω		-10 to 100 mV	
Resolution:	0.0001Ω		0.0001 mV	
Temperature Range:	-260°C to 962°C		-200°C to 850°C	
Temperature Accuracy:	±0.005°C @ 0°C		±0.1°C	
Temperature Resolution:	0.0001°C		0.001°C	

Ordering Information

Order #	Mfg #	Description	Price
MP21038T	1560	Thermometer Base Unit	
MP21038T-220	1560 220V	Thermometer Base Unit, 220V	
MP21039T	2560-SPRT	SPRT Input Module	
MP21039T-2	2562-PRTS	PRT Scanner Input Module	
MP21039T-5	2565-PTC	Precision Thermocouple Input Module	
MP21039T-6	2566-TCS	Thermocouple Scanner Input Module	
MP24209T-12-S	5614-SPADE	0.25 x 12" Precision RTD Probe, Spade Connector	
MP24209T-9-S	5612-SPADE	.187 x 9" Precision RTD Probe, Spade Connector	

Transcat Accredited Calibration with Data (Price Per Module) CALL



Don't forget to order modules, sensors and sensor case.

You can find additional reference probes on pages G35-G36

NEW Extech Datalogging Thermometer

EasyView Dual Input Type J, K, T, E, R, S, N Datalogging Thermometer

Internal memory stores up to 8,000 records

- Each Record Stores Time, T1 and T2
- Displays T1 and T2 or T1-T2 plus T1 or T1-T2 plus T2 Simultaneously on Dual Display
- User Selectable Units in Degrees Fahrenheit, Centigrade or Kelvin
- Min/Max/Average Function with Timer

Each Unit Includes: Built-in Stand, Rubber Protective Holster, Two Type K Bead Wire Temperature Probes, 6 AAA Batteries, Windows® 95/98/NT/2000/ME/XP Compatible Software and RS-232 Cable

Specifications

Ranges	Resolution	Basic Accuracy
K - Type : -200.0 °F to +1999.9 °F (-150.0 °C to +1370.0 °C)	J, K, T, E, N Type: 0.1°	±0.05% Rdg + 1.5°F (0.75°C)
J - Type : -200.0 °F to +1994.0 °F (-150.0 °C to +1090.0 °C)		
T - Type : -200.0 °F to +752.0 °F (-150.0 °C to +400.0 °C)		
E - Type : -200.0 °F to +1598.0 °F (-150.0 °C to +870.0 °C)		
R - Type : +35 °F to +1999.9 °F (2.0 °C to +1767.0 °C)		
S - Type : +35 °F to +1999.9 °F (2.0 °C to +1767.0 °C)	R, S Type: 1°	
N - Type : -200.0 °F to +1999.9 °F (-150.0 °C to +1300.0 °C)		
Dimensions/Weight:	6 x 2.8 x 1.5" (152 x 72 x 37 mm) / 8.3 oz. (235 g)	

Ordering Information

Order #	Mfg #	Description	Price
MPEA15	EA15	EasyView Datalogging Thermometer	
MP872501-S	872501-S	Type K Bead Wire Temperature Probe	
MP871515	871515	Type K 4" Stainless Steel Probe	
MP409996	409996	Soft Vinyl Carrying Case	



EA15

Temperature Test Instruments

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Tel-Tru Dial Thermometers

- 3" and 5" Heads
- Back, Bottom, or Angle Connection
- 11 Standard Ranges
- 3 Standard Stem Lengths
- Field Recalibration Feature
- Highest Quality
- ½" NPT Connection Nut
- Rugged 304 SS Construction
- Heavy Glass Crystal
- 1% Accuracy Over Entire Range
- Helix Type Bi-Metal Elements
- Made in USA

Special dial ranges, stem lengths, and connection nut size are available. Consult Transcat for details. Immerse stem at least 2" in liquids, 4" in gases. Use of thermowell is recommended for high pressure on heavy-duty installations.

How to Order:

1. Specify model number
2. Select range required
3. Select stem length

Example: MPDT-3R—50-300—6.0
Model No.—Range—Stem Length



ADT-5R

Specifications

Fahrenheit	°/Div.	Celsius	°/Div.
-40 to 160°	2°	-10 to 110°	1°
25 to 125°	1°	0 to 50°	½°
20 to 240°	2°	0 to 150°	1°
50 to 300°	2°	0 to 2000°	2°
50 to 400°	5°	0 to 250°	2°
50 to 400°	5°	—	—

Standard Stem Length

Inches
2.5
4.0
6.0
9.0

Ordering Information

Order #	Head Size (Inches)	Connections	Recalibration Feature	Price for Std. Stem Lengths
MPDT-3	3	Back	No	
MPDT-3R	3	Back	Yes	
MPDT-5R	5	Back	Yes	
MPBDT-3R	3	Bottom	Yes	
MPBDT-5R	5	Bottom	Yes	
MPADT-5R	5	Angle 180° Arc	Yes	