SD card real time data logger Two channels for Pt 100 ohm input + type K, J, R, E, T, S

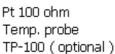
PRECISION 0.01 degree THERMOMETER

Model: TM-9017SD *ISO-9001*, *CE*, *IEC1010*













The Art of Measurement

PRECISION 0.01 degree THERMOMETER

Model: PM-9017SD

| * Type K/J/T/E/R/S, Pt 100 ohm, measurement . |
|--|
| * Type K : -100 to 1300 ℃. |
| * Type J : -100 to 1200 ℃. |
| * Pt 100 ohm : -199.99 to 850.00 ℃. |
| * °C/°F, 0.01 degree / 0.1 degree / 1 degree. |
| * 2 channels (Pt 1, Pt 2, Pt 1- Pt 2), 1 channels |
| Thermocouple Type K or J/T/R/E/S. |
| * Microcomputer circuit provides intelligent function and high |
| accuracy. |
| * Offset adjustment for the Type K/J/T/E/R/S measurement. |
| * Offset adjustment for the Pt 100 measurement. |
| * Measuring unit can select to °C or °F. |
| * Real time SD memory card Datalogger, it Built-in Clock |
| and Calendar, real time data recorder, sampling time set |
| from 1 second to 3600 seconds. |
| * Manual datalogger is available (set the sampling |
| time to 0 second), during execute the manual datalogger |
| function, it can set the different position (location) No. |
| (position 1 to position 99). |
| * Innovation and easy operation, computer is not need to |
| setup extra software, after execute datalogger, just take |
| away the SD card from the meter and plug in the SD card |
| into the computer, it can down load the all the measured |
| value with the time information (year/month/date/ |
| hour/minute/second) to the Excel directly, thenuser can |
| make the further data or graphic analysis by themselves. |
| * SD card capacity : 1 GB to 16 GB. |
| * LCD with green light backlight, easy reading. |
| * Can default auto power off or manual power off. |
| * Data hold, record max. and min. reading. |
| * Microcomputer circuit, high accuracy. |
| * Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter. |
| * RS232/USB PC COMPUTER interface. |
| * Heavy duty & compact housing case. |
| |

| General | Specifications |
|---------|-----------------------|
| OCHCIAI | Specifications |

| Circuit | Custom | Custom one-chip of microprocessor LSI | | |
|--|---|---|--|--|
| | circuit. | | | |
| Display | LCD size | : 52 mm x 38 mm | | |
| | | LCD with green backlight (ON/OFF). | | |
| Channels | Pt1, Pt2, | Pt1- Pt2, Thermocouple Type . | | |
| Sensor type | Type K t | Type K thermocouple probe. | | |
| | Type J/T | /E/R/S thermocouple probe. | | |
| | Pt 100 o | Pt 100 ohm probe | | |
| | * Coope | rate with an 0.00385 alpha | | |
| | coeffic | cient, meet DIN IEC 751. | | |
| Resolution | | .1°C/1°C, 0.01°F/ 0.1°F/1 °F. | | |
| Datalogger | Auto | 1 second to 3600 seconds | | |
| Sampling Time | | @ Sampling time can set to 1 second, | | |
| Setting range | | but memory data may loss. | | |
| | Manual | Push the data logger button | | |
| | | once will save data one time. | | |
| | | @ Set the sampling time to | | |
| | | 0 second. | | |
| | | @ Manual mode, can also select the | | |
| | | 1 to 99 position (Location) no. | | |
| Memory Card | SD mem | SD memory card. 1 GB to 16 GB. | | |
| Advanced | * Set clo | * Set clock time (Year/Month/Date, | | |
| setting | Hour/Minute/ Second) | | | |
| | * Set sampling time | | | |
| | * Auto p | * Auto power OFF management | | |
| | * Set be | * Set beep Sound ON/OFF | | |
| | * Decimal point of SD card setting | | | |
| | * SD memory card Format | | | |
| | * Set temperature unit to °C or °F | | | |
| | * Set thermocouple type to K/J/R/E/T/S. | | | |
| Temperature | Automat | Automatic temp. compensation for the | | |
| Compensation | type K/J/ | type K/J/T/E/R/S thermometer. | | |
| Linear | Linear Co | Linear Compensation for the full range. | | |
| Compensation | | | | |
| Offset | Available for Type K/J/T/E/R/S and | | | |
| Adjustment | Pt 100 ohm. | | | |
| Probe Input | Type K/J | Type K/J/T/E/R/S : 2 pin thermocouple socket. | | |
| Socket | Pt 100 o | Pt 100 ohm : 4 DIN socket. | | |
| Over Indication | Show " - | Show " ". | | |
| Data Hold | Freeze the display reading. | | | |
| Memory Recall | | | | |
| * Appearance and specifications listed in this brochure are subject to | | | | |

| Sampling Time of Display | Approx. 1 second. |
|--------------------------|--|
| Data Output | RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug. |
| Power off | Auto shut off saves battery life or manual off by push button. |
| Operating Temperature | 0 to 50 ℃. |
| Operating Humidity | Less than 85% R.H. |
| Power Supply | * Batterise : (UM3, AA) X 6 PCs, or equivalent. * AC/DC power adapter is optional. adapter is optional). |
| Power Current | Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 8.5 mA. When SD card save the data but and LCD Backlight is OFF) : Approx. DC 30 mA. * AC/DC power adapter is optional. consumption will increase approx. 14 mA. |
| Weight | 278 g/0.61 LB (meter only). |
| Dimension | 177 x 68 x 45 mm (7.0 x 2.7x 1.9 inch) |
| Accessories Included | * Instruction manual1 PC |
| Optional Accessories | * Type K thermocouple probe. TP-01, TP-02A. TP-03, TP-04, TP-05. * Pt 100 ohm probe, TP-100. * SD Card (4 GB) * USB cable, USB-01. * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN., SW-E802. * AC to DC 9V adapter. * Hard carrying case, CA-06. * Soft carrying case, CA-05A. |

Electrical Specifications

PT 100 ohm

| Resolution | Range | Accuracy |
|------------|-----------------------|--------------------|
| 0.01 ℃ | -199.99 to 850.00 ℃ | ± (0.4 % + 1 °C) |
| 0.01 °F | -327.00 to 1562.00 °F | ± (0.4 % + 1.8 °F) |
| | | |

^{*} Pt 100 ohm probe TP-101 is the optional accessory.

Type K/J/T/E/R/S

| Sensor Type | Resolution | Range | Accuracy |
|----------------|---------------|--------------------|--------------------|
| Type K | 0.1 °C | -50.1 to -100.0 ℃ | ± (0.4 % + 1 °C) |
| 7,50 | | -50.0 to 1300.0 ℃ | ± (0.4 % + 0.5 °C) |
| | 0.1 °F | -58.1 to -148.0 °F | ± (0.4 % + 1.8 °F) |
| | - | -58.0 to 2372.0°F | ± (0.4 % + 1 °F) |
| Type J | 0.1 ℃ | -50.1 to -100.0 ℃ | ± (0.4 % + 1 °C) |
| • • | | -50.0 to 1200.0℃ | ± (0.4 % + 0.5 °C) |
| | 0.1 °F | -58.1 to -148.0 °F | ± (0.4 % + 1.8 °F) |
| | | -58.0 to 2192.0 °F | ± (0.4 % + 1 °F) |
| Type T | 0.1 ℃ | -50.1 to -100.0 ℃ | ± (0.4 % + 1 °C) |
| | | -50.0 to 400.0 ℃ | ± (0.4 % + 0.5 °C) |
| | 0.1 °F | -58.1 to -148.0 °F | ± (0.4 % + 1.8 °F) |
| | | -58.0 to 752.0 °F | ± (0.4 % + 1 °F) |
| Type E | 0.1 ℃ | -50.1 to -100.0 ℃ | ± (0.4 % + 1 °C) |
| | | -50.0 to 900.0 ℃ | ± (0.4 % + 0.5 °C) |
| | 0.1 °F | -58.1 to -148.0 °F | ± (0.4 % + 1.8 °F) |
| | | -58.0 to 999.9 °F | ± (0.4 % + 1 °F) |
| | 1 °F | 1000 to 1652 °F | ± (0.4 % + 2 °F) |
| Type R | 1 ℃ | 0 to 1700 ℃ | ± (0.5 % + 3 °C) |
| | 1 °F | 32 to 3092 °F | ± (0.5 % + 5 °F) |
| Type S | 1 ℃ | 0 to 1500 ℃ | ± (0.5 % + 3 °C) |
| | 1 °F | 32 to 2732 °F | ± (0.5 % + 5 °F) |
| change w | ithout notice | 9. | 1501-TM9017SD |

^{*} Appearance and specifications listed in this brochure are subject to change without notice.