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
**General Specifications**

- **USB cable:** USB-01.
- **Appearance and specifications listed in this brochure are subject to change without notice.**

**Probe Input Type**

- -50.0 to 900.0
- Offset Available for Type K/J/T/E/R/S and -58.0 to 752.0
- Compensation
  - Linear
  - Type K/J/T/E/R/S thermometer. Type T
- Linear Compensation for the full range. -50.0 to 400.0
- Temperature
  - Automatic temp. compensation for the -58.0 to 2192.0

**Setting Hour/Minute/Second**

- Type
- Advanced: * Set clock time (Year/Month/Date, Sensor Resolution Range Accuracy
  - Setting range but memory data may loss. 200.0 to 850.0
- **Temperature**
  - Automatic temp. compensation for the -58.0 to 2192.0

**Temperature**

- Setting Hour/Minute/Second
  - Type
  - Advanced: * Set clock time ( Year/Month/Date, Date, Hour/Minute/Second )
  - Set sampling time
  - Auto power OFF management
  - * Set beep Sound ON/OFF
  - * Set decimal point of SD card setting
  - * SD memory card Format
  - * Set temperature unit to °C or °F
  - * Set thermocouple type to K/J/T/E/R/S.

**Temperature Compensation**

- Automatic temp. compensation for the Type K/J/T/E/R/S thermometer.
- Linear
  - Linear Compensation for the full range.

**Offset Adjustment**

- Available for Type K/J/T/E/R/S and Probe input
- **Probe Input Type**
- Type K/J/T/E/R/S: 2 pin thermocouple socket, Pt100 ohm.

**Over Indication**

- Show "- - - - ."

**Data Hold**

- Freeze the display reading.

**Memory Recall**

- Maximum & Minimum value.

**Power off**

- Auto shut off saves battery life or manual off by push button.

**Power Supply**

- * Batteries: (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 and LCD Backlight is OFF):
  - Approx. DC 8.5 mA
  - When SD card save the data but LCD Backlight is OFF:
  - Approx. DC 30 mA
  - AC/DC power adapter is optional. Consumption will increase approx. 14 mA.

**Weight**

- 375 g/0.83 LB (meter only).
- **Dimension**
  - 177 x 68 x 45 mm (7.0 x 2.7 x 1.9 inch)

**Circuit**

- Custom one-chip of microprocessor LSI circuit.

**Display**

- LCD size: 52 mm x 38 mm
- LCD with green backlight, easy reading.
- Can default auto power off or manual power off.
- * Data hold, record max. and min. reading.

**Sampling Time**

- Auto: 1 second to 3600 seconds
- Manual: Push the data logger button 0.1 second to 999 position.
- Manual, can also select the 0-99 position ( Location ) no.

**Power Requirement**

- **USM/AA (1.5 V) x 6 batteries or DC 9V adapter.
- Optional Accessories:**
  - * Type K thermocouple probe.
  - TP-01, TP-02A, TP-03, TP-04, TP-05.

**SD Card**

- Capacity: 1 GB to 16 GB
- Weight: 278 g/0.61 LB

**SD Card real time recorder**

- Real time SD memory card Datalogger, it Built-in Clock
- Measuring unit can select to °C or °F
- Offset adjustment for the Pt 100 measurement.
- Temperature
  - Approx. DC 30 mA

**Type J/T/E/R/S, Pt100 ohm, measurement .**

**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.

**Resolution**

- 0.01°C/°F/°C, 0.01°F/°F.
- 0.01°C/°F, 0.01°F/°F.
- 0.1°C/°F.

**Temperature Range**

- Type K
  - 0.1°C: 50.0 to 1300.0°C
  - ± (0.5% + 3°C)
- Type J
  - 0.1°F: 50.8 to -148.0°F
  - ± (0.4% + 1.8°F)

**Electrical Specifications**

- **PT 100 ohm**
  - Resolution: 0.01°C/°F
  - Range: -199.99 to 392.00°C
  - Accuracy: ± (0.1% + 0.4°F)

**SD Card real time recorder**

- Real time data recorder, sampling time set from 1 second to 3600 seconds.
- Manual datalogger is available ( the setting time to 0 second ), during the manual datalogger function, it can set the different position ( location ) No.
- for Type K/J/T/E/R/S measurement.
- **Measuring unit can select to °C or °F**
- **Measurement**
  - 10 to 999.9
  - ± (0.5% + 3°C)
  - Type R
  - 0 to 1700°C
  - ± (0.5% + 3°F)

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