Type K/J, Pt 100 ohm, RS-232, Data logger

4 channels THERMOMETER

Model : TM-946

ISO-9001, CE, IEC1010

FEATURES

* Type K/J, Pt 100 ohm, 4 display.
* 4 channels ( T1, T2, T3, T4 ), T1-T2 for Type K, Type J.
* 2 channels ( PT1, PT2 ) for Pt 100 ohm.
* Type K : -199.9 to 1370 ℃
* Type J : -199.9 to 1210 ℃
* Pt 100 ohm : -199.9 to 850 ℃
* ℃/℉, 0.1 degree/1 degree.
* Data hold, Record ( max., min. ).
* RS-232 interface.
* Data logger, 16,000 data point.
* DC 1.5V ( UM-4, AAA ) battery x 6 or DC 9V adapter in.
**FEATURES**

- Type K/J, Pt 100 ohm, measurement with 4 display.
- Show 4 channels display on the LCD at the same time.
- Type K : -199.9 to 1370 ℃.
- Type J : -199.9 to 1210 ℃.
- Pt 100 ohm : -199.9 to 850 ℃.
- C/F, 0.1 degree/1 degree.
- 4 channels (T1, T2, T3, T4), T1-T2.
- Microcomputer circuit provides intelligent function and high accuracy.
- Manual and auto data logger, with flexible sampling time selection, can save max. 16,000 reading data.
- Records Maximum and Minimum readings with recall.
- Data hold function for freezing the desired value.
- Offset adjustment for the Type K and Type J measurement.
- Offset adjustment for the Pt 100 measurement.
- Measuring unit can select to ℃ or ℉.
- DC 1.5V (UM-4, AAA) battery x 6 PCs.
- Build-in the input socket for DC 9V power adapter.
- RS232 PC serial interface.
- Few panel buttons, easy operation.
- Built-in low battery indicator.
- Heavy duty & compact housing case.

**GENERAL SPECIFICATIONS**

- Circuit: Custom one-chip of microprocessor LSI circuit.
- Display: LCD size : 52 mm x 38 mm
- Display Unit: ℃, ℉.
- Resolution: 0.1 ℃, 0.1 ℉.
- Channels: T1, T2, T3, T4, T1-T2.
- Sensor type: Type K thermocouple probe, Type J thermocouple probe, PT 100 ohm probe
  - Cooperate with an 0.00385 alpha coefficient, meet DIN IEC 751.
- Sampling Time of Data Logger: Manual, Push the data logger button once will save data one time. * Set the sampling to 0 second.
  - Auto, 1 second to 59 minutes and 59 seconds.
- Data Logger number: Max. 16,000-point Data logger
  - Type K, Type J, 4 channels (T1, T2, T3, T4),
  - PT 100 ohm, 2 channels (T1, T2),
  - T1-T2, Memory use 4 data point space in the memory.
- Temperature Compensation: Automatic temp. compensation for the cold junction both type K/J thermometer
- Linear Compensation: Linear Compensation for the full range.
- Offset, Span Adjustment: Available for advanced calibration procedure.
- Probe Input Socket: Type K, Type J : 2 pin thermocouple socket.
  - Pt 100 ohm : Ear phone socket.

**ELECTRICAL SPECIFICATIONS (23± 5 ℃)**

### Type K, Type J thermocouple

<table>
<thead>
<tr>
<th>Type</th>
<th>Reso</th>
<th>Range</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type K</td>
<td>℃</td>
<td>0.1</td>
<td>1000 to 1370.0 ℃</td>
</tr>
<tr>
<td></td>
<td>℃</td>
<td>0.1</td>
<td>-199.9 to 999.9 ℃</td>
</tr>
<tr>
<td></td>
<td>℉</td>
<td>0.1</td>
<td>1000 to 2498 ℉</td>
</tr>
<tr>
<td>Type J</td>
<td>℃</td>
<td>0.1</td>
<td>1000 to 1210 ℃</td>
</tr>
<tr>
<td></td>
<td>℃</td>
<td>0.1</td>
<td>-199.9 to 999.9 ℃</td>
</tr>
<tr>
<td></td>
<td>℉</td>
<td>0.1</td>
<td>1000 to 2210 ℉</td>
</tr>
</tbody>
</table>

* Accuracy value is specified for the meter only.
* Type K probe TP-01, TP-02A, TP-03, TP-04 are the optional accessories.

### PT 100 ohm

<table>
<thead>
<tr>
<th>Type</th>
<th>Range</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>℃</td>
<td>-199.9 to 850 ℃</td>
<td>± (0.4 % + 1 ℃)</td>
</tr>
<tr>
<td>℉</td>
<td>1000 to 1562 ℉</td>
<td>± (0.4 % + 1.8 ℉)</td>
</tr>
<tr>
<td>℃</td>
<td>-199.9 to 999.9 ℃</td>
<td>± (0.4 % + 1 ℃)</td>
</tr>
<tr>
<td>℉</td>
<td>200 to -327 ℉</td>
<td>± (0.4 % + 1.8 ℉)</td>
</tr>
</tbody>
</table>

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

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* Appearance and specifications listed in this brochure are subject to change without notice. 0606-TM946