



ENGLISH

Datasheet  
Stock No. 123-3216  
**RS PRO RS52 Digital Thermometer**



**Feature:**

- K-type Thermocouple
- Large LCD display (18.5mm)
- Dual thermocouple input
- Differential temperature (T1-T2)
- 1°C or 0.1°C (1°F or 0.1°F) resolution
- 0.3% + 1°C basic accuracy
- °C or °F display
- Maximum Record
- Reading hold function
- Standard 9V battery
- Protective holster with tilt stand
- Two bead probes included and WinDTM50 software

## Specifications:

Accuracy is  $\pm$  (% reading + number of digits) at


23°C  $\pm$  5°C less than 75% R.H.

The specifications below do not include thermocouple error.

| Range           | Resolution | Accuracy(T1 or T2) | Accuracy(T1 - T2)  |
|-----------------|------------|--------------------|--------------------|
| -50°C ~ 199.9°C | 0.1°C      | $\pm$ (0.2% + 1°C) | $\pm$ (0.5% + 1°C) |
| -58°F ~ 199.9°F | 0.1°F      | $\pm$ (0.2% + 2°F) | $\pm$ (0.5% + 4°F) |
| -50°C ~ 200°C   | 1°C        | $\pm$ (0.3% + 2°C) | $\pm$ (0.5% + 2°C) |
| -58°F ~ 392°F   | 1°F        | $\pm$ (0.3% + 4°F) | $\pm$ (0.5% + 4°F) |
| 200°C ~ 1000°C  | 1°C        | $\pm$ (0.4% + 2°C) | $\pm$ (0.5% + 2°C) |
| 392°F ~ 1832°F  | 1°F        | $\pm$ (0.4% + 4°F) | $\pm$ (0.5% + 4°F) |
| 1000°C ~ 1300°C | 1°C        | $\pm$ (0.6% + 2°C) | $\pm$ (0.6% + 2°C) |
| 1832°F ~ 1999°F | 1°F        | $\pm$ (0.6% + 4°F) | $\pm$ (0.6% + 4°F) |

**Input protection:** 9V DC or 6V rms.

## General

|                                 |  |
|---------------------------------|--|
| <b>Display</b>                  | 1999 count   |
| <b>Sampling Rate:</b>           | 2.5 times/sec  |
| <b>Overrange Indication:</b>    | "OL" or "-OL"  |
| <b>Low Battery Indication:</b>  |         |
| <b>Operating Temperature:</b>   | 0°C~50°C ( $\leq$ 75% R.H.)  |
| <b>Storage Temperature:</b>     | -20°C~60°C ( $\leq$ 80% R.H.)  |
| <b>Temperature Coefficient:</b> | 0.1 $\times$ (spec. Accuracy)/°C <18°C, >28°C  |
| <b>Power Requirement:</b>       | Single 9V battery  |
| <b>Battery Life:</b>            | 250 hours(Alkaline)  |
| <b>Size:</b>                    | 64mm(W) $\times$ 160mm(L) $\times$ 26mm(H), without holster                                |
|                                 | 74mm(W) $\times$ 170mm(L) $\times$ 39mm(H), with holster                                   |
| <b>Weight:</b>                  | 430g with holster  |
| <b>Accessories:</b>             | Type 50BK bead thermocouple x 2pics, ZnC battery, Protective holster, belt clip and Manual |