

Datasheet

RS Pro RS52 Digital Thermometer, 2 Input Handheld, K Type Input

RS Stock No: **206-3738**



Product Details

RS Pro digital thermometer with two handheld inputs, is suitable for environmental test and measurement. This digital thermometer has an easy to read LCD display and optional measurement preference. The choice of data loggers can be based on many factors. It offers a large display count of up to 1999. It has a real time stamp feature for minimum, maximum and average measurements. Our unique range of handheld thermometers offer you the choice of calibration types and temperature measuring preference to suit your needs.

Features and Benefits

- Two type K bead thermocouples supplied
- Reading hold function
- °C or °F display
- Dual thermocouple input
- Differential temperature (T1-T2)
- Includes protective holster with stand, belt clip, PP3 battery and instruction manual

Technical specification		
	RS 51	RS 52
Instrument Measurement Range	K-type, -50°C to +1300°C	K-type, -50°C to +1300°C
Accuracy @ 0.1°C Resolution	$\pm 0.2\% \text{ rdg} + 1.0^\circ\text{C} @ -50^\circ\text{C to } +199.9^\circ\text{C}$	$\pm 0.2\% \text{ rdg} + 1.0^\circ\text{C} @ -50^\circ\text{C to } +199.9^\circ\text{C}$
Accuracy @ 1.0°C Resolution	$\pm 0.3\% \text{ rdg} + 2^\circ\text{C} @ -50^\circ\text{C to } +200^\circ\text{C}$ $\pm 0.4\% \text{ rdg} + 2^\circ\text{C} @ 200^\circ\text{C to } +1000^\circ\text{C}$ $\pm 0.6\% \text{ rdg} + 2^\circ\text{C} @ 1000^\circ\text{C to } +1300^\circ\text{C}$	$\pm 0.3\% \text{ rdg} + 2^\circ\text{C} @ -50^\circ\text{C to } +200^\circ\text{C}$ $\pm 0.4\% \text{ rdg} + 2^\circ\text{C} @ 200^\circ\text{C to } +1000^\circ\text{C}$ $\pm 0.6\% \text{ rdg} + 2^\circ\text{C} @ 1000^\circ\text{C to } +1300^\circ\text{C}$
Accuracy (T1-T2) @ 0.1°C Resolution	n/a	$\pm 0.3\% \text{ of T1-T2 reading} + 2^\circ\text{C} @ -50^\circ\text{C to } +199.9^\circ\text{C}$
Accuracy (T1-T2) @ 1.0°C Resolution	n/a	$\pm 0.5\% \text{ of T1-T2 reading} + 2^\circ\text{C} @ -50^\circ\text{C to } +200^\circ\text{C}$
Accuracy (T1-T2) @ 1.0°C Resolution	n/a	$\pm 0.5\% \text{ of T1-T2 reading} + 2^\circ\text{C} @ 200^\circ\text{C to } +1000^\circ\text{C}$
Accuracy (T1-T2) @ 1.0°C Resolution	n/a	$\pm 0.6\% \text{ of T1-T2 reading} + 2^\circ\text{C} @ 1000^\circ\text{C to } +1300^\circ\text{C}$
Sampling Rate	2.5 times/s	2.5 times/s
Input Protection	60 V dc or 24 V r.m.s.	9 V dc 6 V r.m.s.
Operating Temperature	0°C to 50°C @ 0 to 75% R.H.	0°C to 50°C @ 0 to 75% R.H.
	RS 53	RS 55
Instrument Measurement Range	K-Type: -200°C to 1375°C J-Type: -210°C to 1200°C	K-Type: -200°C to 1375°C J-Type: -210°C to 1200°C
Accuracy @ 0.1°C Resolution K-Type	$\pm 0.1 \text{ rdg} + 0.7^\circ\text{C} @ -99.9^\circ\text{C to } 999.9^\circ\text{C}$ $\pm 0.3 \text{ rdg} + 1.0^\circ\text{C} @ -200^\circ\text{C to } -100^\circ\text{C}$	$\pm 0.1 \text{ rdg} + 0.7^\circ\text{C} @ -99.9^\circ\text{C to } 999.9^\circ\text{C}$ $\pm 0.3 \text{ rdg} + 1.0^\circ\text{C} @ -200^\circ\text{C to } -100^\circ\text{C}$
Accuracy @ 1.0°C Resolution K-Type	$\pm 0.3 \text{ rdg} + 1.0^\circ\text{C} @ 1000^\circ\text{C to } 1375^\circ\text{C}$	$\pm 0.3 \text{ rdg} + 1.0^\circ\text{C} @ 1000^\circ\text{C to } 1375^\circ\text{C}$

Accuracy @ 0.1°C Resolution J-Type	±0.1 rdg+0.8°C @ -99.9°C to 999.9°C ±0.3 rdg+1.1°C @ -210°C to -100°C	±0.1 rdg+0.8°C @ -99.9°C to 999.9°C ±0.3 rdg+1.1°C @ -210°C to -100°C
Accuracy @ 1.0°C Resolution J-Type	±0.3 rdg+1.0°C @ 1000°C to 1200°C	±0.3 rdg+1.0°C @ 1000°C to 1200°C
Accuracy (T1-T2)	n/a	±0.3% of T1-T2 reading +2°C
Sampling Rate	2 times/s	1/s
Input Protection	60 V dc or 24 Vr.m.s.	9 V dc 6 Vr.m.s.
Operating Temperature	0°C to 50°C @ 0% to 75% R.H.	0°C to 50°C @ 0% to 75% R.H.

Linked Stock Numbers: 2063722, 2063738, 2064264, 2064270, 2064286, 2064292, 2064309, 2064315, 6158206 6158212, 6174545, 6174551, 6174567, 6174573, 6174589 6174595, 8916887, 8917199, 8917943, 8926792