

## Overview

### RS 50 Series Thermometers

- Single Type K bead thermocouple supplied  
18.5mm LCD display (3½ digit, 1999 count)  
Maximum record  
Reading hold function  
°C or °F display

### RS 51, Single Channel K-Type

- Two Type K bead thermocouples supplied  
Dual thermocouple input  
Differential temperature (T1-T2)  
18.5mm LCD display (3½ digit, 1999 count)  
Maximum record  
Reading hold function  
°C or °F display

### RS 52 Dual Channel K-Type

### RS 53 Single Channel K & J-Type

- Single Type K bead thermocouple supplied  
K or J-Type - thermocouple input  
Large dual 4-digit LCD display (9999 count)  
Maximum, Minimum or Average display with real time stamp  
Data logging upto 16000 records  
°C, °F or °K display  
Auto Power Off with selectable time setting

### RS 55 Dual Channel K & J-Type

- Two Type K bead thermocouples supplied  
Dual thermocouple input K or J-Type  
Differential temperature (T1 -T2)  
Large dual 4-digit LCD display (9999 count)  
Maximum, Minimum or Average display with real time stamp  
Data logging upto 16000 records  
°C, °F or °K display  
Auto Power Off with selectable time setting

## Technical specification

Technical specification		
	<b>RS 51</b>	<b>RS 52</b>

<b>Instrument Measurement Range</b>	K-type, -50°C to +1300°C	K-type, -50°C to +1300°C
<b>Accuracy @ 0.1°C Resolution</b>	±0.2% rdg +1.0°C @ -50°C to +199.9°C	±0.2% rdg +1.0°C @ -50°C to +199.9°C
<b>Accuracy @ 1.0°C Resolution</b>	±0.3% rdg +2°C @ -50°C to +200°C ±0.4% rdg +2°C @ 200°C to +1000°C ±0.6% rdg +2°C @ 1000°C to +1300°C	±0.3% rdg +2°C @ -50°C to +200°C ±0.4% rdg +2°C @ 200°C to +1000°C ±0.6% rdg +2°C @ 1000°C to +1300°C
<b>Accuracy (T1-T2) @ 0.1°C Resolution</b>	n/a	±0.3% of T1-T2 reading +2°C @ -50°C to +199.9°C
<b>Accuracy (T1-T2) @ 1.0°C Resolution</b>	n/a	±0.5% of T1-T2 reading +2°C @ -50°C to +200°C
<b>Accuracy (T1-T2) @ 1.0°C Resolution</b>	n/a	±0.5% of T1-T2 reading +2°C @ 200°C to +1000°C
<b>Accuracy (T1-T2) @ 1.0°C Resolution</b>	n/a	±0.6% of T1-T2 reading +2°C @ 1000°C to +1300°C
<b>Sampling Rate</b>	2.5 times/s	2.5 times/s
<b>Input Protection</b>	60 Vdc or 24 Vr.m.s.	9 Vdc 6 Vr.m.s.
<b>Operating Temperature</b>	0°C to 50°C @0 to 75% R.H.	0°C to 50°C @0 to 75% R.H.
	<b>RS 53</b>	<b>RS 55</b>
<b>Instrument Measurement Range</b>	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

<b>Accuracy @ 0.1°C Resolution K-Type</b>	±0.1 rdg+0.7°C @ -99.9°C to 999.9°C ±0.3 rdg+1.0°C @ -200°C to -100°C	±0.1 rdg+0.7°C @ -99.9°C to 999.9°C ±0.3 rdg+1.0°C @ -200°C to -100°C
<b>Accuracy @ 1.0°C Resolution K-Type</b>	±0.3 rdg+1.0°C @ 1000°C to 1375°C	±0.3 rdg+1.0°C @ 1000°C to 1375°C
<b>Accuracy @ 0.1°C Resolution J-Type</b>	±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
<b>Accuracy @ 1.0°C Resolution J-Type</b>	±0.3 rdg+1.0°C @ 1000°C to 1200°C	±0.3 rdg+1.0°C @ 1000°C to 1200°C
<b>Accuracy (T1-T2)</b>	n/a	±0.3% of T1-T2 reading +2°C
<b>Sampling Rate</b>	2 times/s	1/s
<b>Input Protection</b>	60 Vdc or 24 Vr.m.s.	9 Vdc 6 Vr.m.s.
<b>Operating Temperature</b>	0°C to 50°C @ 0 to 75% R.H.	0°C to 50°C @ 0 to 75% R.H.

**Note**

The values given indicate the model's total capability. The figures are dependent on the thermocouple type being used. See the technical specifications for further information.

**Supplied with**

Protective holster with stand, belt clip, PP3 battery, manual