

### TECHNICAL DATA

#### Features

- Displays 2 temperature measurements simultaneously
- Easy to operate, designed for one hand operation
- Integrated display provides flexibility for use without mobile device
- Magnetic backing allows instrument to be mounted to metallic surfaces
- Data Hold function
- User selectable °F , or °C
- Low battery indicator and auto shut off
- Tripod mount for long-term monitoring

#### When used with REED Smart Series App:

- Real-time data logger
- User selectable sampling rate from 1 to 120 seconds
- Bluetooth® 5.0 provides connectivity to instruments up to 246' (75m) away
- Connect, measure and datalog up to 6 instruments, simultaneously
- Easy setup with automatic app integration for compatible REED Smart Series instruments
- Export data via Excel or PDF and create custom reports that can be emailed from mobile device
- Includes 4 x AAA batteries and 2 x beaded wire probes



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# REED **Thermocouple Thermometer** INSTRUMENTS Model R1640



## Specifications

Measuring Range:	-328 to 2501°F (-200 to 1372°C)
Accuracy:	>-148°F (-100°C): ±0.05% rdg. + 1.8°F (1°C) <-148°F (-100°C): ± 2.7°F (1.5°C) *(Tested at 23±5°C)
Resolution:	0.1°F/°C
Thermometer Type:	Contact (Type-K)
Temperature Inputs:	2
Display:	Multi-Line Enhanced Black Twisted Nematic (EBTN) LCD
Display Size:	1.3" (34mm)
Backlit Display:	Yes
Data Hold:	Yes
Datalogging Capabilities:	Yes (with Smart Series App)
Real-Time Clock and Date Stamp:	Yes (with Smart Series App)
Customizable Sampling Rate:	Yes
Ovrrange Indicator:	Yes
Auto Shut-off:	Yes (adjustable)
Tripod Mountable:	Yes
Magnetic Backing:	Yes
Low Battery Indicator:	Yes
Power Supply:	4 x AAA Batteries
Battery Life:	Approx. 50 hours (sampling time dependent)
Connectivity:	Bluetooth® 5.0
Bluetooth® Range:	Up to 246' (75m)
Max # of Connected Devices:	6
Software:	REED Smart Series App (iOS and Android)
App Supported Languages:	English, French
Product Certifications:	CE, UKCA, FCC, IC ID
Maximum Operating Altitude:	6561' (2000m)
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	14 to 122°F (-10 to 50°C)
Operating Humidity Range:	10 to 90%
Storage Humidity Range:	10 to 90%
Dimensions:	6.4 x 1.5 x 1" (163 x 38 x 25mm)
Weight:	3.3oz (95g)

## TECHNICAL DATA

### R1640-KIT

Data Logging Smart Series  
Thermocouple Thermometer  
with Tripod and Carrying Case

Includes:  
R1640 Thermocouple  
Thermometer, R1500 Tripod  
and CA-05A Medium Soft  
Carrying Case



### R1640-KIT2

Data Logging Smart Series  
Thermocouple Thermometer  
with 4 Type-K Thermocouple  
Probes and Carrying Case

Includes:  
R1640 Thermocouple  
Thermometer,  
R2920 Type K Surface Probe,  
R2940 Type K Air/Gas Probe,  
R2950 Type K Immersion Probe,  
R2960 Type K Needle Tip Probe and  
R8890 Large Hard Carrying Case



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**REED Instruments**

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## TECHNICAL DATA

### R1640-KIT3

Data Logging Smart Series  
Thermocouple Thermometer with  
2 Oven/Freezer Thermocouple Probes



Includes:

R1640 Thermocouple Thermometer,  
R2980 2 Type K Air Oven/Freezer  
Thermocouple Probes

### R16X0-KIT

Data Logging Bluetooth  
Smart Series Kit



Includes:

R1600 Vane Anemometer,  
R1610 Thermo-Hygrometer,  
R1620 Sound Level Meter,  
R1630 Light Meter,  
R1640 Thermocouple  
Thermometer and R9950 Large  
Soft Carrying Case

### R16X0-KIT3

Data Logging Bluetooth  
Smart Series HVAC Kit



Includes:

R1600 Vane Anemometer,  
R1610 Thermo-Hygrometer,  
R1640 Thermocouple  
Thermometer, R2970 Type K  
Pipe Clamp Thermocouple Probe  
and CA-05A Medium Soft  
Carrying Case

Model	Description
R1640	Thermocouple Thermometer
R2920	Type K Surface Probe
R2930	Type K Right Angle Surface Probe
R2940	Type K Air/Gas Probe
R2950	Type K Immersion Probe
R2960	Type K Needle Tip Probe
R2970	Type K Pipe Clamp Thermocouple Probe
R2980	Type K Air Oven/Freezer Thermocouple Probe
TP-01	Type K Beaded Wire Probe
CA-52A	Small Soft Carrying Case
R8888	Medium Hard Carrying Case
R1500	Tripod
R1640-KIT	Data Logging Smart Series Thermocouple Thermometer with Tripod and Carrying Case
R1640-KIT2	Data Logging Smart Series Thermocouple Thermometer with 4 Type-K Thermocouple Probes and Carrying Case
R1640-KIT3	Data Logging Smart Series Thermocouple Thermometer with 2 Oven/Freezer Thermocouple Probes
R16X0-KIT	Data Logging Bluetooth Smart Series Kit
R16X0-KIT3	Data Logging Bluetooth Smart Series HVAC Kit
R1640-NIST	Thermocouple Thermometer & NIST