

FEATURES

- Designed for heat and ventilation applications
- Includes a dual input thermometer with pipe clamp probes
- Also includes plug mounted probes for surface, immersion and air temperature
- Waterproof
- Provided with a carry case and PP3 battery

RS PRO Heating & Ventilation Temperature Monitoring Kit

RS Stock No.: 434-2415



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

This RS PRO heating and ventilation kit comprises of a dual input thermometer, two clamp probes and plug mounted probes for surface, immersion and air temperature. There is also a handle probe to allow the plug mounted probes to be easily used.

General Specifications

Thermometer	
Series	RS PRO
Thermometer Type	Handheld
Compatible Probe Types	K/T/J/R/N/E/S
Number of Temperature Inputs	Two
Functions	Input 1, Input 2, Differential, Hold
Absolute Maximum Temperature Measurement	1372°C
Temperature Scale	Centigrade/Fahrenheit
Display Type	LCD
Resolution	0.1° to 1000°
Best Accuracy	±0.1% of reading ±0.2°C
Temperature Coefficient	0.01% of reading /°C
Temperature Scale	ITS-90
Automatic Shut-Off	10 Min (user configurable)
Operating Temperature	-40°C to 50°C
Operating Humidity	0% to 70% RH
Applications	HVAC, Facilities Management

Pipe Clamp Probe	
Series	RS PRO
Model Number	3429202
Probe Type	Surface
Probe Tip Type	Clamp
Sensor Type	K Type Thermocouple
Minimum Temperature Measurement	-50°C
Maximum Temperature Measurement	150°C
Response Time	7 Sec (96% of value in water)
Best Accuracy	±1.5°C (±0.25%)
Accuracy Class	Class I
Connector Type	Mini plug
Operating Temperature	-50 to 150°C
Storage Temperature	-30 to 50°C
Applications	HVAC, Facilities Management

Plug Mounted Surface Probe	
Series	RS PRO
Model Number	3429117
Probe Type	Surface
Probe Tip Type	Ribbon band
Sensor Type	K Type Thermocouple
Minimum Temperature Measurement	-100°C
Maximum Temperature Measurement	250°C
Response Time	0.1 Sec (96% of value on clean metal)
Best Accuracy	±1.5°C (±0.25%)
Accuracy Class	Class I
Connector Type	Mini plug
Operating Temperature	-100 to 250°C
Storage Temperature	-30 to 50°C
Applications	HVAC, Facilities Management

Plug Mounted Immersion Probe	
Series	RS PRO
Model Number	3429072
Probe Type	Mineral insulated
Probe Tip Type	Domed end
Sensor Type	K Type Thermocouple
Minimum Temperature Measurement	-100°C
Maximum Temperature Measurement	750°C
Response Time	2 Sec (96% of value in water)
Best Accuracy	±1.5°C (±0.25%)
Accuracy Class	Class I
Connector Type	Mini plug
Operating Temperature	-100 to 750°C
Storage Temperature	-30 to 50°C
Applications	HVAC, Facilities Management

Plug Mounted Air Probe	
Series	RS PRO
Probe Type	Air
Probe Tip Type	Exposed junction
Sensor Type	K Type Thermocouple
Minimum Temperature Measurement	-100°C
Maximum Temperature Measurement	400°C
Response Time	0.1 Sec (96% of value in moving gas)
Best Accuracy	±1.5°C (±0.25%)
Accuracy Class	Class I
Connector Type	Mini plug
Operating Temperature	-100 to 400°C
Storage Temperature	-50 to 50°C
Applications	HVAC, Facilities Management

Handle Probe (for use with plug mounted probes)	
Series	RS PRO
Probe Type	Handle
Probe Tip Type	Socket
Sensor Type	K Type Thermocouple
Minimum Temperature Measurement	N/A
Maximum Temperature Measurement	N/A
Response Time	N/A
Best Accuracy	±1.5°C (±0.25%)
Accuracy Class	Class I
Connector Type	Mini plug
Operating Temperature	N/A
Storage Temperature	-50 to 50°C
Applications	For use with plug mounted probes

Mechanical Specifications

Thermometer	
Housing Material	ABS
Dimensions	130 x 70 x 33mm
Length	130mm
Width	70mm
Height	33mm
Weight	155g

Pipe Clamp Probe	
Probe Size	110mm (for pipes up to 25mm diameter)
Mounting Style	Handheld
Process Connection	N/A
Cable Length	2m
Cable Insulation Material	Polyurethane

Plug Mounted Surface Probe	
Probe Diameter	6mm (shield)
Mounting Style	Mini plug mounted
Process Connection	N/A
Cable Length	N/A
Cable Insulation Material	N/A

Plug Mounted Immersion Probe	
Probe Diameter	3mm
Mounting Style	Mini plug mounted
Process Connection	N/A
Cable Length	N/A
Cable Insulation Material	N/A

Plug Mounted Air Probe	
Probe Size	110mm (30mm length funnel)
Mounting Style	Mini plug mounted
Process Connection	N/A
Cable Length	N/A
Cable Insulation Material	N/A

Handle Probe (for use with plug mounted probes)	
Probe Size	135 x 15mm
Mounting Style	Handheld
Process Connection	N/A
Cable Length	2m
Cable Insulation Material	Polyurethane

Electrical Specifications

Thermometer	
Battery Type	9V PP3
Battery Life	Greater than 200 hours (alkaline)
Plug Type	Mini thermocouple

Protection Category

IP Rating	Waterproof
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Additional Information

Thermometer	
EAN	5060379941729
Custom Tariff Number	90251980

Pipe Clamp Probe	
EAN	5060379941446
Custom Tariff Number	90259000

Plug Mounted Surface Probe	
EAN	5060379941149
Custom Tariff Number	90259000

Plug Mounted Immersion Probe	
EAN	5060379941125
Custom Tariff Number	90259000

Plug Mounted Air Probe	
EAN	5060379941088
Custom Tariff Number	90259000

Handle Probe (for use with plug mounted probes)	
EAN	5060379941071
Custom Tariff Number	90259000

Classification

Thermometer	
eCl@ss	32-12-03-06
UNSPSC	411112213

Probe	
eCl@ss	32-12-03-90
UNSPSC	411112219

Approvals

Declarations	CE
Hazardous Area Certification	No
Standards Met	No

Similar Products

Stock No.	Brand	Product Name	Application	Sensor Type	Thermometer Type
255-522	RS PRO	Legionella Kit	Legionella	T Type Thermocouple	Single Input Thermocouple
219-5349	RS PRO	Budget Compact Legionella Kit	Legionella	K Type Thermocouple	Single Input Thermocouple
204-8405	RS PRO	Compact Legionella Kit	Legionella	K Type Thermocouple	Single Input Thermocouple

Accessories Included

- Thermometer user manual
- Shock resistant rubber boot (for thermometer)
- 1 x 9V PP3 battery