Technical Specifications

Name	Value
Integral Temperature Sensor Specifications:	(only applies when Thermocouple Probe or Adaptor used)
Sensor Type	Thermistor Sensor is built into Comark Lumberg Thermocouple Probes. A probe must be connected to measure temperature. There is no built in Sensor in RF614.
Scales	°C and °F
Temperature Measurement Range	-18°C to +55°C (-0.4°F to +131°F) - See Note 1
Accuracy 0°C to +55°C (-32°F to +131°F)	<±0.3°C (±0.6°F) - See Note 2
Accuracy (full range)	±0.5°C (±0.9°F) - See Note 2
Temperature Resolution	0.1°C (0.2°F)
External Probes Specifications:	
Number of External Channels	3
Sensor Type	Type T and K Thermocouple
Connector	6-Pin Lumberg and Sub-Min Connector Options - See Note 6
Scales	°C and °F
Temperature Measurement Range (Thermocouple Type T)	-200 to +400°C (-328 to +752°F)
Temperature Measurement Range (Thermocouple Type K)	-200 to +1372°C (-328 to 2501.6°F)
Instrument Accuracy	+/-0.1% ±0.2°C (±0.4°F) full range @ +23°C Ambient
System Accuracy Type T - Over the range 0°C to +70°C (32°F to +158°F)	±0.5°C @ +23°C (+73°F) Ambient - See Note 2
System Accuracy Type T and K - Full Range	Please refer to specification for the chosen thermocouple probe
Temperature Resolution	0.1°C (0.2°F)
Common Specifications (All Models):	
Hi Hi/Lo Lo Alarm - All Channels exlcuding Door Switch	Hi Hi and Lo Lo Alarms with Alarm Delay and fully selectable Alarms
Alarm Delay 0-60 minutes - All Channels excluding Door Switch	Delay is programmable for either H H or Hi Hi Alarms or both independently
Door Switch (Optional)	Optional accessory RF521 or RF522
Door Sensor Resolution	5 seconds
Door Switch Alarms	Door Switch Alarms Continuous and Average (up to 60 minutes programmable)
Ambient Operating Temperature Range	-18 to +55°C (-0.4°F to 131°F) - 10-90% RH - Non-Condensing - See Note 1
Storage Temperature	-18 to +55°C (-0.4°F to 131°F) - See Note 1
Wireless Frequency	2.4GHz WiFi (IEEE 802.11b/g/n)
Wireless Security	WPA2 Pre-Shared Key - See Note 3
Radio Range	Typically 20 metres indoors
Clock Accuracy	20ppm (1 minute/month) at +25°C (+77°F)

Logging Memory	140000 Max records - Depends on number of active channels
Log Rate	Programmable between 1 minute and 60 minutes
Channel Monitoring Rate	1 Minute
Wireless Radio Rate	Programmable between 5 Minutes to 24 Hours - See Note 5
Alarm/Active LEDs (Front)	RED - ALARM / GREEN - External Power
Status LEDs (Side)	RED - WiFi Active / YELLOW - Communications Active / GREEN - Mains Power Connected
Case Material	Over Moulded food safe clear Polycarbonate with BioCote® Antimicrobial Protection
Environmental Protection	Case enclosure designed to meet IP65 BS EN 60529
Battery Type	4 x AA Alkaline or Energizer MAX Lithium - See Note 4
Battery Life	Up to 1 year
Dimensions	Length 110mm, Height 100mm, Depth 45mm
Weight	300g
Mains PSU (Optional)	Optional Mains PSU Part No RF520 (100-240VAC 0.3A 50/60Hz)
Maximum Probe Lead Length	Not to exceed 30m
Warranty	2 Years

Notes:
1 - Temperature and Storage range with Energizer Lithium L91 Cells is expanded to -30 to +60°C (-22°F to +140°F)
2 - When used with a Comark Probe
3 - Other WiFi Security Options will be provided by Firmware Update
4 - Use Energizer MAX L91 for improved battery life in all applications but especially recommended for use in low temperature applications.
5 - The WiFi Rate should be set for 4 Hours or greater for best Battery Life. This will not effect Alarm Notifications.
6 - Comark Type T Lumberg probes will connect directly to the RF614. For up to 3 channels an N2000ADP/T or N2000ADP/K adaptor is required. These adaptors are compatible with Thermocouple Sub-Min Probes.