

Diligence **WiFi**

Comark RF312DUALPLUS

Dual channel data logger with thermistor sensor



The RF312DualPlus data logger can measure two temperature points with a single unit.

The two probes can measure the environment in which they are situated, e.g. one could measure a refrigerator and the other could measure a freezer. This high accuracy data logger is accurate to $\pm 0.2^{\circ}\text{C}$ (-15°C to $+80^{\circ}\text{C}$) / $\pm 0.4^{\circ}\text{F}$ ($+5^{\circ}\text{F}$ to $+176^{\circ}\text{F}$). The unit comes with a bracket that can be used to mount the data logger on a wall or surface. The probes are connected to the data logger via a 160mm Y splitter cable which is provided.

Data is streamed wirelessly to either the Comark Cloud or a local PC. During configuration, the data logger will search for wireless networks while physically connected to the PC. It can then be placed anywhere within range of the network. If the data logger temporarily loses connectivity with the network, it will log readings until the connection is re-established (max 30 days at 10 second sample interval).

The RF312DualPlus is a low power device containing a rechargeable battery. When configured, the data logger can operate for up to six months*. The battery can be recharged via a standard +5V wall adapter or a USB port using the cable provided.

The LCD display includes several features including Max and Min readings and indicators for battery state, alarms, RF312 connection and signal strength. With our free PC software you can choose to store your data logger data either locally on a single PC, or make it universally accessible on the Comark Cloud. Whichever you choose, you'll be able to analyze data, draw graphs and export the latest and historic data in various formats. Comark Cloud App has been released for Android users who wish to view data on the go.

You can change the data logger's settings to suit your needs, options include:

- Assigning names to the data logger and each measuring channel.
- Selecting the units of measurement.
- Choosing the sample rate and transmission period.
- Setting high and low alarm levels for each channel.

Once configured, data logger settings can be changed remotely, without the need to reconnect it to your PC.

The RF312DualPlus has a protection rating of IP43 and the probes IP67. The data logger is IEEE 802.11g compliant, supports WEP, WPA/WPA2 encryption and enterprise networks**.

*Please refer to specification for details

** MS-CHAPv2, PEAP, EAP-FAST, EAP-TTLS

Features

- Dual channel recording through two external thermistor probes
- Wirelessly stream and view data on the Comark Cloud or on a PC
- Data logger set up is easy using our free PC software
- View and analyze multiple data loggers, including graphing of historic data
- Measures temperature range -40°C to $+125^{\circ}\text{C}$ (-40°F to $+257^{\circ}\text{F}$) (probe dependent)
- Configurable high and low alarms with indicator
- Data logger memory stores data even if WiFi is temporarily disconnected



COMARK

A Fluke Company

Comark RF312DUALPLUS

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For Sales & Service Contact

00 353 (0) 61 603 742

info@hhsolutions.ie

www.hhsolutions.ie

Authorised Comark Distributor for
Ireland & Northern Ireland



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Specifications

Sensors	Thermistor
Battery Life	3-6 months depending on frequency of transmissions*
USB supply voltage	4.5 to 5.5 Vdc
Operating temperature range	-20°C to +60°C / -4°F to +140°F
Logging period (user configurable)	10 seconds to 12 hours (Typical 10 minutes)
Transmission period (user configurable)	1 minute to 24 hours (Typical 1 hour)
Temperature measurement range	-40°C to +125°C / -40°F to +257°F
Temperature measurement resolution	0.01°C / 0.02°F
Temperature display resolution	0.01°
Temperature accuracy (system)	±0.2°C (-15°C to +80°C) / ±0.4°F (+5°F to +176°F) ±0.6°C (-40°C to +125°C) / ±1°F (-40°F to +257°F)

For more details of the Diligence WiFi range, please see www.comarkinstruments.com



Probe Specification

Sensor	Thermistor
Temperature range	-40°C to +125°C / -40°F to +257°F
Length	3 metres / 10 feet

*Battery Life and Power Supply

The product will arrive partly charged and ideally should be charged for 24 hours before use for optimum performance. The battery can be recharged via a PC, a USB +5V wall adapter RF320 (UK/US), or a portable USB battery pack using the USB lead provided. When charging the unit must be operating between 0°C to +40°C / +32°F to 104°F. The data logger can also be permanently powered by the RF320 USB wall adapter. Readings may be affected while the internal battery is being charged. However, once charged, continued connection of the charger will have no effect.

Battery life is dependent on: transmission period, WiFi encryption method, WiFi encryption key rotation frequency (determined by the router/access point), signal strength between router/access point and WiFi device, presence volume and type of WiFi traffic from other devices, sample rate and operating temperature.

Warranty

Each Comark product is warranted to be free from defects in material and workmanship under normal use and service. The warranty period is one (1) year, unless otherwise stated, and the warranty period begins on the date of shipment. Temperature probes are warranted for six (6) months.

The warranty extends only to the original buyer or end-user of a Comark authorized reseller. This warranty does not cover damage resulting from normal wear and tear, abuse, misuse, accidental breakage, negligence, defects caused by modifications, repair and servicing not made or authorised by Comark Instruments, damage caused by handling, operating, storing, or using the product outside the intended uses described by our product literature. Disposable batteries are also exempt from warranty.

Warranties on dishwasher safe models apply only where the product has been used in a commercial dishwasher. Comark Instruments products are not suitable for use or cleaning in domestic dishwashers.

Comark's warranty obligation is limited, at Comark's option, to refund of the purchase price, free of charge repair, or replacement of a defective product returned within the warranty period. Products must be returned to Comark or one of Comark's authorized service agents.

This warranty is the buyer's sole and exclusive remedy and is in lieu of all other warranties, express or implied, including but not limited to any implied warranty of fitness for a particular purpose. Comark shall not be liable for any special, indirect, incidental or consequential damages or losses, including loss of data, whether arising from breach of warranty or based on contract, tort, reliance or any other theory. Since some countries or states do not allow limitation of the term of an implied warranty, or exclusion or limitation of incidental or consequential damages, the limitations and exclusions of this warrant may not apply to every buyer.

The Professionals' Choice