

Diligence **WiFi**

Comark RF313-TH Temperature & Humidity Data Logger



The Diligence™ WiFi RF313-TH data logger measures and records temperature and humidity via internal sensors.

Comark offers two options for managing the data collected with Diligence WiFi data loggers:

- Diligence WiFi software for set up, data logging and data review on a local PC. Set up features include data logger name, choice of °C or °F scale, sample rate and high/low alarms.
- Comark Cloud has the same features as Diligence WiFi software and in addition offers unlimited storage of your temperature and humidity records. Data can be viewed for multiple locations from anywhere in the world using any internet enabled device.

The collected temperature data is transmitted via your WiFi network and when configured, the data logger can be placed anywhere within range of the WiFi network.

If connectivity is temporarily lost, the data logger will continue to log readings until it can communicate again with Diligence WiFi software or Comark Cloud (maximum of 120 days at a 10 second sample rate). The range of the data logger can be extended using WiFi extenders.

The Diligence WiFi RF313-TH data logger is a low powered battery device. Battery life is typically 3 to 6 months depending on transmission rate. The battery can be recharged via a PC or by mains power using the RF320/UK power supply unit, which is available as an accessory.

Features

- Measurement range from -20°C to +60°C
- Humidity measurement range from 0 to 100%
- Rechargeable internal lithium polymer battery
- Easy data logger set-up using free PC software application
- Built in temperature and humidity data logger with WiFi capabilities and integrated display
- Temperature selection in °C and °F
- Data can be viewed via the graphing tool or can be exported to MS Excel
- Configurable high and low alarms with indicator
- Transmits data via your local WiFi network
- Max and Min readings
- IEEE 802.11b/g/n compliant
- Protection rating IP55
- Capable of logging greater than 500,000 data set entries
- Memory stores all data even if WiFi is temporarily disconnected
- Fully featured LCD segment display
- Low battery indicator
- WiFi connection indicator
- USB port used for recharging (can only be recharged when the unit is between 0°C to +40°C)
- Supplied with wall bracket and micro USB lead

Comark Cloud

Comark Cloud service makes your data universally accessible from any internet enabled device. Manage your devices and make changes to any data logger settings remotely, including changing alarm levels. With the Cloud service you can:

- Store data on-line
- Monitor multiple sites
- View on mobile devices
- Have multiple users
- Receive email alerts when alarms occur or if a device needs attention

Comark RF313-TH Temperature & Humidity Data Logger



For Sales & Service Contact

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Authorised Comark Distributor for Ireland & Northern Ireland



Specifications

Battery life	3-6 months depending on frequency of transmissions*
USB supply voltage	5V (typical)
Temperature measurement range	-20°C to +60°C
Humidity measurement range	0%RH to 100%RH
Temperature internal resolution	±0.1°C
Humidity internal resolution	1.0%RH
Temperature accuracy	
overall error between +5°C and +60°C	±0.3°C
overall error over the full °C range	±1.5°C
Humidity accuracy	
overall error between 20%RH and 80%RH	±2.0%RH
Logging rate (user configurable)	Transmission rate from every 10 seconds to every 12 hours
Transmission period (user configurable)	1 minute to 12 hours
Operating temperature range	-20°C to +60°C
Logger dimensions	Height 82mm x Width 70mm x Depth 22mm
WiFi Compliance	IEEE 802.11b/g/n compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (MS-CHAPv2, PEAP, EAP-FAST, EAP-TTLS)

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

*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.