

# Diligence **WiFi**

## CMKREC022 RF313-TH

### Temperature & Humidity Data Logger

**NEW**  
**Cloud App**  
 for easy logger  
 set-up



Use Comark Cloud to manage and store temperature and humidity 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
- NEW Cloud App for easy logger set up

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 °F or °C 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. Alarm notifications sent in real time by email and text message.

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 30 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/US power supply unit, which is available as an accessory.

#### Features

- Temperature range -4°F to +140°F
- Humidity measurement range from 0 to 100%
- Rechargeable internal lithium polymer battery
- Easy data logger set-up using free PC software application or the Comark Cloud App
- Temperature selection in °F or °C
- 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
- 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 +32°F to +104°F)
- Supplied with Wall Bracket and Micro USB lead

\*Please refer to specification for details



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# CMKREC022 RF313-TH

## Temperature & Humidity Data Logger

### Specifications

Battery life	3-6 months depending on frequency of transmissions*
USB supply voltage	5V (typical)
Temperature measurement range	-4°F to +140°F
Humidity measurement range	0%RH to 100%RH
Temperature internal resolution	±0.2°F
Humidity internal resolution	1.0%RH
Temperature accuracy	
overall error between +41°F to +140°F	±0.6°F
overall error over the full °F range	±2.7°F
Humidity accuracy	
overall error between 20%RH and 80%RH	±5.0%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	-4°F to +140°F
Logger dimension	Height 3.2" x Width 2.75" x Depth 0.9"
WiFi Compliance	IEEE 802.11b/g/n compliant, supports WEP, WPA/WPA2 encryption and enterprise networks (PEAP, EAP-FAST, EAP-TTLS)

For more details of the Diligence WiFi range, please see [www.tiptemp.com](http://www.tiptemp.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 (US/UK), or a portable USB battery pack using the USB lead provided. When charging the unit must be operating between +32°F to 104°F / 0°C to +40°C. 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.