



COMARK

A Fluke Company

# *Diligence* **WiFi**

## Diligence RF300 Data Loggers and Comark Cloud

WiFi temperature monitoring with cloud data storage



The Professionals' Choice

# Comark Cloud

The easy route to due diligence reporting and quality assurance

## Continuous temperature monitoring, 24 hours a day, 7 days a week

Safety regulations apply to any operation ensuring correct practice in areas such as industrial production, manufacturing, laboratories and warehousing.

Your safety plan covers the storage and use of ingredients and making the finished product. It is also important to measure the temperature and humidity levels in the working environment. Managing this can be daunting and time-consuming.

Comark Cloud makes that task of continuously monitoring much easier by providing automated temperature and humidity monitoring, and alerts 24 hours a day, 7 days a week.

It can be used to monitor and report on one location or multi-site operations. No more missed records, no more time consuming paperwork!

## Visibility and reporting

Access your Comark Cloud account from wherever you are in the world using any internet enabled device. This could be a PC at the office or at home, an iPad, tablet or mobile phone with a web browser. The Comark Cloud supports IE7 and above, and the latest Chrome, Firefox and Safari browsers.

All your food service areas can be monitored from freezers, chillers and refrigerators through to cooking and holding temperatures, safe in the knowledge that alerts will notify you if anything does go wrong.

You can receive alerts by email and SMS text\* which enable you take immediate action to prevent the loss of costly stock.

**Diligence™ WiFi data loggers have a large screen display so you can also check locally and see temperature or humidity readings at a glance. Use:**

- **RF311-T** to measure environmental temperatures.
- **RF312-TP** to measure temperature using thermistor probes.
- **RF312 Dual Plus** to measure with two thermistor probes where high accuracy is required. Measure two locations with one logging device.
- **RF312 Glycol** for measurements where a damped sensor is required to moderate rapid fluctuations in temperature.
- **RF313-TH** to measure humidity and temperature.
- **RF314-TC** to measure temperature with thermocouple probes.
- **RF314 Dual** to measure with two probes. Measure two locations with one logging device.
- **RF324** for audible and visual local alarm.

## Use Diligence Data Loggers and Comark Cloud to:

- View data via smartphone, tablet or PC
- Receive real time alarms via email and SMS text\*
- Protect your critical assets with cloud based wireless temperature and humidity monitoring
- Free data storage on the Comark Cloud for 1 year



\*via an email to SMS service such as Textmagic.com

## How it works

- **Storage** - monitor temperature and humidity in refrigerators and freezers to confirm your products are maintained at correct levels, avoiding stock loss.
- **Preparation** - prevent bacterial growth in products and ensure correct processes by measuring core temperatures with a Diligence WiFi data logger and probe.
- **Sanitation** - check correct cleaning equipment temperatures are achieved by using a Diligence WiFi data logger and probe.
- **Save records** - no manual temperature and humidity checks required, reducing labour time and potential errors in maintaining paper records.
- **Reports** - present and print data in graphical and tabular format. Export data as CSV or PDF files.
- **Secure** - temperature data collected automatically 24/7 via free Comark Cloud account.
- **Alerts** - Real time notification to multiple staff when alarms occur via e-mail and SMS text\* message, 24 hours a day, 7 days a week.



# Diligence WiFi and Comark Cloud See in action

From receipt at the back door to delivery to customers

Create a scalable temperature and humidity monitoring system using Diligence WiFi loggers coupled with Comark's Cloud data storage.

Temperature monitoring is automated all the way through from receipt of deliveries at the back door through to serving safe food to your customers.

All your equipment such as cold storage rooms, refrigerators, freezers or warehousing racks can be monitored round-the-clock and data can be viewed from any internet enabled device.

Alarm notifications immediately alert to any out-of-range temperature or humidity readings so immediate corrective actions can be taken. The RF324 Alert unit flashes locally as an additional warning to check facilities monitored by the Diligence WiFi data logging network.



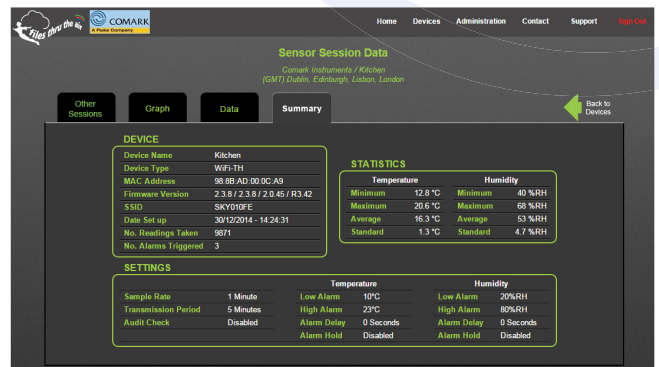
# Comark Diligence WiFi and Comark Cloud

Manage, monitor and report on data



## RF300 Transmitter List

View the status of transmitters in your network



## RF300 Transmitter Summary

View details of an individual transmitter



## Temperature Data - Graph Format

Date/Time	Temperature	Humidity
06/01/2015 10:46:51	18.0°C	54%RH
06/01/2015 10:45:51	18.0°C	54%RH
06/01/2015 10:44:51	18.0°C	54%RH
06/01/2015 10:43:51	18.0°C	54%RH
06/01/2015 10:42:51	18.0°C	54%RH
06/01/2015 10:41:51	18.0°C	54%RH
06/01/2015 10:40:51	18.0°C	54%RH
06/01/2015 10:39:51	18.0°C	54%RH
06/01/2015 10:38:51	18.0°C	54%RH
06/01/2015 10:37:51	18.0°C	54%RH
06/01/2015 10:36:51	18.0°C	54%RH
06/01/2015 10:35:51	18.0°C	54%RH
06/01/2015 10:34:51	18.0°C	54%RH

## Temperature Data - Tabular Format

# Comark Diligence WiFi RF300 Hardware

## The Data Logger Range



### RF311-T Temperature Data Logger

Measures temperature in the environment in which it is situated.

- Measures the temperature of the environment in which it is situated.
- Temperature range:  
-20 to +60°C / -4 to +140°F
- Supplied with wall bracket and micro USB lead



### RF312-TP Temperature Data Logger with Thermistor Probe

Measures temperature via a thermistor probe.

- Measures temperature using a thermistor probe.
- Temperature range:  
-40 to +125°C / -40°F to +257°F
- Supplied with one removable thermistor probe, wall bracket and micro USB lead



### RF312 Dual Plus Temperature Data Logger with two Thermistor Probes

Measures two temperature points with one device via two thermistor probes.

- Temperature measurement range:  
-40°C to +125°C / -40°F to +257°F
- Supplied with two removable thermistor probes, wall bracket and micro USB lead



### RF312 Glycol Temperature Data Logger

Designed to monitor the temperature of perishable goods using a detachable Glycol buffer probe.

- Temperature measurement range:  
-40 to +125°C / -40 to +257°F
- Supplied with high accuracy glycol buffer probe, wall bracket and micro USB lead



### RF313-TH Temperature and Humidity Data Logger

Measures temperature and humidity levels in the environment in which it is situated.

- Temperature range: -20°C to +60°C / -4°F to +140°F
- Humidity Range: 0%RH to 100%RH
- Supplied with wall bracket and micro USB lead



### RF314-TC Temperature Data Logger with Thermocouple Probe

Measures temperature via a thermocouple probe.

- Temperature range: -270°C to +1300°C / -454°F to +2372°F
- Sub-miniature connection is compatible with a range of Comark probes
- Supplied with one removable thermocouple probe, wall bracket and micro USB lead

# RF300 Hardware

## The Data Logger Range



### RF314 Dual Temperature Data Logger with two Thermocouple Probes

Measures two temperature points with one device via two thermocouple probes.

- Temperature range:  $-270^{\circ}\text{C}$  to  $+1300^{\circ}\text{C}$  /  $-454^{\circ}\text{F}$  to  $+2372^{\circ}\text{F}$
- Sub-miniature connection is compatible with a range of Comark probes
- Supplied with removable thermocouple probe, wall bracket and micro USB Lead

### RF324 Alarm Unit

Connects to multiple Diligence WiFi data loggers via WiFi network

- Flashing red LED's light up through translucent red rear moulding
- Configurable alert tones and volume



## Contact Us

We understand there are times when our customers may need guidance on the best solution for their requirements. If you would like further information or to discuss your temperature monitoring application, please contact our customer service department who will be pleased to assist.

**We are here to help so please contact us on:**

**Telephone:**

**+44 (0) 207 942 0712**

**Email:**

**[sales@comarkinstruments.com](mailto:sales@comarkinstruments.com)**

**Website:**

**[www.comarkinstruments.com](http://www.comarkinstruments.com)**

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## Warranty Statement

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 or cleaned 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.