

RF313-TH Temperature & Humidity Data Logger

New!

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 from 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 > 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 (-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 (download from www.comarkinstruments.com/software)
- Temperature selection in °C and °F
- Data can be viewed via the graphing tool or can be exported to Microsoft Excel™
- Configurable high and low alarms with indicator
- Wireless connectivity to PC via WiFi
- Max and Min readings
- View and analyse multiple data loggers using the PC application, including immediate graphing of historic data
- Memory stores all data even if WiFi is temporarily disconnected
- 802.11b compliant
- IP rating IP55
- Fully featured LCD segment display
- Low battery indicator
- WiFi connection indicator
- USB port used for recharging and initial set up
- Supplied with wall bracket and micro USB lead

Comark Instruments' 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

Contact Comark Instruments for more details



Technical Specification

RF313-TH Temperature & Humidity Data Logger

| Specifications | Minimum | Typical | Maximum | Unit |
|--|--------------|-----------------------|-----------------------|-------------------------|
| Battery life | | >6 | | Months* |
| USB supply voltage | 4.5V | 5V | 5.5V | V d.c. |
| Temperature measurement range | -20°C (-4°F) | | +60°C (+140°F) | °C (°F) |
| Humidity measurement range | 0 %RH | | 100 %RH | %RH |
| Temperature internal resolution | | 0.1°C (0.18°F) | | °C (°F) |
| Humidity internal resolution | | 1.0 %RH | | %RH |
| Temperature accuracy - overall from between +5°C and +60°C (41°F and +140°F) (typical) and -20°C and +60°C (-4°F and +140°F) (maximum) | | ±0.3°C (0.5°F) | ±0.8°C (1.4°F) | °C (°F) |
| Humidity accuracy (@ 25°C/77°F) | | ±2.0%RH (20 to 80%RH) | ±5.0%RH (0 to 100%RH) | %RH |
| Logging rate (user configurable) | 10 seconds | 10 minutes | 12 hours | seconds, minutes, hours |
| Transmission period (user configurable) | 1 minute | 1 hour | 24 hours | seconds, minutes, hours |
| Operating temperature range | -20°C (-4°F) | | +60°C (+140°F) | °C (°F) |

* Depending on frequency of transmissions

Order Part Number: RF313-TH Oracle Part Number: 4365216

| Logger Dimensions | mm |
|-------------------|------|
| Height | 97.3 |
| Width | 71.3 |
| Depth | 26.4 |

The software installed on the PC will allow set-up, data logging and data review. Set-up features will include data logger name, °F/°C, sample rate, and high/low alarms. Once configured, historic data can be viewed via the graphing tool or exported into Excel. This software is available to download for free from www.comarkinstruments.com/software.

The data logger stands alone by itself on a horizontal surface and comes with a wall bracket that can be screwed onto a wall or flat surface. The data logger clips into the bracket.

WARRANTY

All Comark instruments have a minimum one year warranty unless otherwise stated. The warranty period for temperature probes is for six months and all other probes and electrodes are unwarranted because the conditions of use are beyond our control. The Comark warranty covers manufacturing defects and component failures on all products returned to Comark premises and applies worldwide. The warranty does not affect your statutory rights. In line with our policy of continuous development we reserve the right to alter any product specifications without notice. All products are covered by our Quality Management System which is compliant with BS EN ISO 9001:2008 for the design, manufacture, supply, service, repair and recalibration of electronic measuring instruments and equipment.

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