COMARK
A Fluke Company

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 °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 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 charge is typically > 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

- Measurement 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
- 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
- Alarm delay prevents false alarms due to defrost cycles or operational conditions
- Wireless connectivity to PC via WiFi
- 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 to +104°F)
- 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

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The Professionals' Choice

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Specifications

Battery life	3-12 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	±0.18°F
Humidity internal resolution	1.0%RH
Temperature accuracy	
overall error between +41°F to +140°F	±0.9°F
overall error over the full °C range	±2.7°F
Humidity accuracy	
overall error between 0%RH and 100%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 1/4" x Width 3 3/4" x Depth 7/8"
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.comarkusa.com

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Warranty

All Comark instruments have a minimum one year warranty unless otherwise stated. The warranty for temperature probes is six months and all other probes are unwarranted because the conditions of use are beyond our control. The Comark Warranty covers manufacturing defects and component failure and applies worldwide. In line with our policy of continuous development, we reserve the right to alter any product specification without notice. Comark has an accredited UKAS (NIST equivalent) calibration laboratory for temperature and humidity measurement and offers full service and recalibration facilities.

Comark Instruments is committed to providing quality and affordable products to the food service industry. Our thermometers and humidity testers bring speed, accuracy and reliability to the transport, testing and storing of food under HACCP guidelines. A large variety of products, well-trained staff, and a commitment to customer satisfaction mean you can come to us for answers to all your temperature measurement needs!

The Professionals' Choice