

## RF313-TH Temperature & Humidity Data Logger

**New!**

The RF313-TH data logger measures the temperature and humidity of the environment in which it is situated. Data is transmitted wirelessly via a WiFi network to a PC and viewed via the graphing tool or can be exported to Excel.

The software installed on the PC will allow set up, data logging and data review. Set up features will include data logger name, °C/°F, sample rate, and high/low alarms. This software is available to download for free from [www.comarkinstruments.com](http://www.comarkinstruments.com).

During configuration, the data logger will search for an existing wireless network while physically connected to the PC. It can then be placed anywhere within range of the network. If the data logger temporarily loses connectivity with the network, it will log readings until it is able to communicate again with the PC application (max 60 days at 10 second sample interval). The range of the data logger can be increased by using WiFi extenders.

The RF313-TH is a low powered battery device with a battery life of 3 months to one year, depending on transmission rate. The battery can be recharged via a PC or by mains power using the RF320\* power supply unit, which is available as an accessory.



### Features

- Measurement range from -20 to +60°C (-4 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 (downloadable from [www.comarkinstruments.com](http://www.comarkinstruments.com))
- 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 Excel
- Configurable high and low alarms with indicator
- Wireless connectivity to PC via WiFi
- Max and Min readings
- 802.11b 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 to +40°C (+32 to +104°F))
- Firmware upgradable via USB (Downloadable from [www.comarkinstruments.com](http://www.comarkinstruments.com))
- Supplied with wall bracket and micro USB lead



### More information from:

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\* RF320 Power Supply Part Numbers:  
RF320/UK - UK  
RF320/EU - International  
RF320/US - USA

# Technical Specification

## RF313-TH Temperature & Humidity Data Logger

Specifications	Minimum	Typical	Maximum	Unit
Battery life	3		12	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 error between 0°C and +60°C (32°F and +140°F)		±0.3°C (0.5°F)	±1.2°C (2.1°F)	°C (°F)
Humidity accuracy - overall error between 10%RH and 90%RH		±2.0 %RH		%RH
Logging rate (user configurable)	10 seconds	10 minutes	12 hours	
Transmission period (user configurable)	1 minute	1 hour	12 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](http://www.comarkinstruments.com).

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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