

Diligence WiFi Glycol Simulant Data Logger



The RF312Glycol data logger with detachable glycol buffer probe is designed for use in monitoring the temperature of vaccines, medications and food storage.

The RF312 Glycol Monitoring Kit brings together our high accuracy RF312 data logger and a detachable glycol buffer probe designed specifically for use in monitoring the temperature of vaccines, medications and food storage. The high accuracy data logger is typically accurate to $\pm 0.2^{\circ}\text{C}$ (-15°C to $+80^{\circ}\text{C}$) / $\pm 0.4^{\circ}\text{F}$ ($+5^{\circ}\text{F}$ to $+176^{\circ}\text{F}$). Data is streamed wirelessly over any WiFi network and can be viewed locally on a PC using our free software package, or from anywhere, using the Comark Cloud.

The glycol buffer probe provides a buffered response to changes in temperature. This helps to simulate the thermal lag experienced by products stored in the monitored environment.

Features

- Wirelessly stream and view data on the Comark Cloud or on a PC
- Data logger set up is easy using our free PC software
- View and analyze multiple data loggers, including graphing of historic data
- High accuracy glycol buffer probe temperature measurement range -40°C to $+100^{\circ}\text{C}$ / -40°F to $+212^{\circ}\text{F}$
- Configurable high and low alarms with indicator
- Data logger memory stores data even if WiFi is temporarily disconnected

Setting up your RF312 Glycol Monitoring Kit is easy, using our free PC software. Choose to store your data locally on the PC, or make it universally accessible on the Comark Cloud. Whichever you choose, you'll be able to view historic data in graphs or tables, and export it in various formats. At any time, you can change the data logger settings, including Name, $^{\circ}\text{C}/^{\circ}\text{F}$, Sample Rate, and High/Low alarm levels. Our software and firmware updates are available free from www.comarkinstruments.com.

During configuration, the data logger will search for an existing wireless network whilst 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 or the Cloud (max 30 days at 10 second sample interval). Although the WiFi data loggers have an impressive range this can be increased by using WiFi extenders.

The data logger is a battery powered device with an internal rechargeable lithium polymer battery, but can be permanently powered using an RF320 USB power supply (available separately).

The LCD display includes several features including Max and Min readings and indicators for low battery, alarms, WiFi connection and signal strength.

The RF312 has a protection rating of IP43 and the glycol probe, IP67. The RF312 is freestanding, but can be attached to a wall or surface using the bracket provided. The glycol buffer probe is supplied with a detachable magnetic base for easy installation.

The data logger is IEEE 802.11g compliant, supports WEP, WPA/WPA2 encryption and enterprise networks*.

*MS-CHAPv2, PEAP, EAP-FAST, EAP-TTLS

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Comark Instruments
52 Hurricane Way
Norwich, Norfolk, NR6 6JB
United Kingdom
Tel: +44 (0) 207 942 0712
Fax: +44 (0) 207 942 0714
Email: sales@comarkinstruments.com

Comark Instruments
P.O. Box 500
Beaverton, OR97077, USA
Tel: +1 (503) 643 5204
Toll Free: (800) 555 6658
Fax: +1 (503) 627 5311
Email: sales@comarkusa.com



Importør:
Impex Produkter AS
Gamle Drammensvei 107
1363 HØVIK
Tel. 22 32 77 20
info@impex.no
www.impex.no

Specifications RF312GLYCOL

Sensors	Thermistor
Battery Life	>6* months
USB supply voltage	4.5 to 5.5 Vdc
Operating temperature range	-20° C to +60° C / -4° F to +140° F
Logging period (user configurable)	10 seconds to 12 hours (Typical 10 minutes)
Transmission period (user configurable)	1 minute to 24 hours (Typical 1 hour)
Temperature measurement range	-40° C to +100° C / -40° F to +212° F
Temperature measurement resolution	0.01° C / 0.01° F
Temperature display resolution	0.01° C / 0.01° F
Temperature accuracy (system)	±0.2° C (-15° C to +80° C) / ± 0.4° F (+5° F to +176° F) ±0.6° C (-40° C to +125° C) / ±1° F (-40° F to +257° F)
Glycol buffer response time (t90)	40 minutes
Glycol buffer probe lead length	3 metres

(Glycol Buffer Probe - Replacement Part Number: RFAXGLYCOL)

Warning - do not exceed operating temperatures.

The t90 response is the time taken for the temperature probe to achieve 90% of the ambient temperature, after being subjected to an instant change.

Battery Life and Power Supply

The product will arrive partly charged, but ideally you should charge it for 24 hours before use for optimum performance. The battery can be recharged (unit must be between 0° C to +40° C / +32° F to 104° F) via a PC, a USB +5V wall adapter, or a portable USB battery pack using the cable provided. It can also be permanently powered by a USB wall adapter or USB battery pack.

*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.

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.

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