

## RF314-TC Temperature Data Logger with Probe

**New!**

The RF314-TC data logger measures the temperature of the environment in which the probe is situated. Data is transmitted wirelessly via a WiFi network to a PC and viewed using free software available to download from [www.comarkusa.com](http://www.comarkusa.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 120 days at 10 second sample interval). The range of the data logger can be increased by using WiFi extenders.

The RF314-TC data logger is supplied with a thermocouple probe and can be used with a range of probes from Comark Instruments in a variety of food production and food service temperature applications.

This RF314-TC 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/US power supply unit, which is available as an accessory.



### Features

- Measurement range -454°F to +2372°F (-270°C to +1300°C) (probe dependent)
- Rechargeable internal lithium polymer battery
- Easy data logger set-up using free PC software application (downloadable from [www.comarkusa.com](http://www.comarkusa.com))
- Temperature data logger with K type thermocouple probe
- Supports J, K, N, T type probes
- Wireless connectivity to PC via WiFi
- View and analyze multiple data loggers using the PC application, including immediate graphing of historic data
- 802.11b compliant
- Capable of logging greater than 1 million data entries
- Memory stores all data even if WiFi is temporarily disconnected
- Main unit IP55, probe IP67
- Configurable high and low alarms with indicator
- Delayed alarms capability
- Audit function
- Max & Min readings
- Low battery indicator
- WiFi connection indicator
- USB port used for recharging and initial Setup

### More information from:

**Comark Instruments**  
Beaverton, OR 97077, USA  
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Fax: (503) 644 5859  
Email: [sales@comarkusa.com](mailto:sales@comarkusa.com)  
[www.comarkusa.com](http://www.comarkusa.com)

# Technical Specification


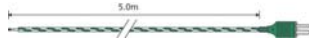


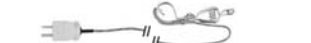
## RF314-TC Temperature Data Logger with Probe

| Specifications  | Minimum         | Typical         | Maximum           | Unit    |
|---|-----------------|-----------------|-------------------|---------|
| Battery life  | 3               |                 | 12                | Months* |
| USB supply voltage  | 4.5v            | 5v              | 5.5v              | V d.c.  |
| Operating temperature range                                     | -4°F (-20°C)    |                 | +140°F (+60°C)    | °F (°C) |
| Logging rate (user configurable)                                | 10 seconds      | 30 seconds      | 12 hours          |         |
| Transmission period (user configurable)                         | 1 minute        | 1 hour          | 12 hours          |         |
| Temperature measurement range (probe dependent)                 | -454°F (-270°C) |                 | +2372°F (+1300°C) | °F (°C) |
| Temperature measurement resolution                              |                 | 0.1°            |                   | °F (°C) |
| Temperature display resolution -40°F to +750°F (-40°C to +40°C) |                 | 0.1°            |                   | °F (°C) |
| Temperature accuracy (probe dependent)                          |                 | ±1.8°F (±1.5°C) |                   | °F (°C) |
| <b>Supplied Probe Specifications (K type)</b>                   |                 |                 |                   |         |
| Temperature accuracy  |                 | ±1.8°F (±1.5°C) |                   | °F (°C) |
| Temperature range   | +32°F (0°C)     |                 | +482°F (+250°C)   | °F (°C) |
| Probe length  |                 |                 | 1500              | mm      |

\* Depending on frequency of transmissions

| Logger Dimensions | Inches | mm    |
|-------------------|--------|-------|
| Height            | 4      | 97.3  |
| Width             | 3      | 71.3  |
| Depth             | 1      | 26.36 |

| Probe Dimensions | Inches | mm    |
|------------------|--------|-------|
| Length           | 4      | 100.0 |
| Width            | 2      | 5.0   |
| Lead length      | 6      | 1500  |

| Optional Probes  |  |
|--|--|
|  | AK28M Flexible Wire Air Probe<br>Lead: 3 feet Range: -148°F to +482°F    |
|  | AK29M Flexible Wire Air Probe<br>Lead: 15 feet Range: -148°F to +482°F   |
|  | PK20M Oven-Meat Penetration Probe<br>Lead: 4 feet Range: -58°F to +482°F |
|  | PK23M Oven Probe<br>Lead: 7 feet Range: -58°F to +482°F                  |
|  | ATT29 Oven/Air Probe with clip<br>Lead: 4 feet Range: -40°F to +950°F    |

### 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.

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 to Excel.

This 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.

Distributed by:

### Comark Instruments

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