

GO Wireless Logger

Temperature monitoring logger

*Cargo Monitoring Solutions
User Manual*



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GO Wireless Loggers

GO Wireless Loggers are flat, compact in size and digitally record the time and temperature of a perishable product's environment during storage or in-transit. Easy to use in combination with the AutoSense™ Gateway, loggers do not require ongoing calibration to maintain accuracy. Loggers have the capability to measure ambient air temperature and are also equipped to take a surface read of the object to which they are attached, providing a more accurate assessment of actual product temperature. With preprogramming functionality, standard temperature range specifications can be set for the most frequently shipped perishable items

Understanding the GO Wireless Logger

- 1. Activation** – Date by which logger should ideally be used.
- 2. Temperature range** – Preprogrammed temperature alert ranges are displayed. If no alerts are programmed “Data Logger” is listed.
- 3. LEDs/visual indicators** – A green LED will flash to indicate the logger is on and actively monitoring time and temperature. A amber LED will flash to indicate wireless transmission is off.
- 4. Start button** – Press and hold for a minimum of 3 seconds to activate; LEDs will flash in a sequence to indicate successful activation. Loggers should be activated when the product is ready to be monitored.
- 5. Duration** – Indicates how many days, under normal conditions, the logger will collect data after it is activated.
- 6. Part number**– A unique alphanumeric identifier used to reference the type of logger and preprogramming combination.
- 7. Logger unique identifier and barcode** – Each logger has a unique alpha numeric identifier which differentiates it from other Copeland Loggers. When information is downloaded from the logger, this serial number will appear as the name of the saved data file and will also appear at the top of the graph.

Note that each logger is sealed in a waterproof plastic pouch. Copeland GO Wireless Loggers can be used in almost any environment, including fully emerged in liquid. DO NOT COMPROMISE INTEGRITY OF PLASTIC POUCH.



Operating range

Specified operating range for GO Wireless Loggers is -20°C to 60°C (-4°F to 140°F).

Activating GO Wireless Loggers

- Activate the logger by pressing and holding the green “Press & Hold” button in the lower righthand corner of the logger for 3 seconds; green and amber LEDs will flash in a sequence to indicate successful activation.
- Once the logger has been started: time and temperature recording will begin recording, wireless transmission will be enabled, and the green LED will flash every 4 seconds.
- Time and temperature recording cannot be disabled once started.
- Apply the logger to product or product packaging.

Logger placement scenarios

The form factor of the GO Wireless Logger promotes its use in a variety of scenarios including at the pallet, carton and product level.

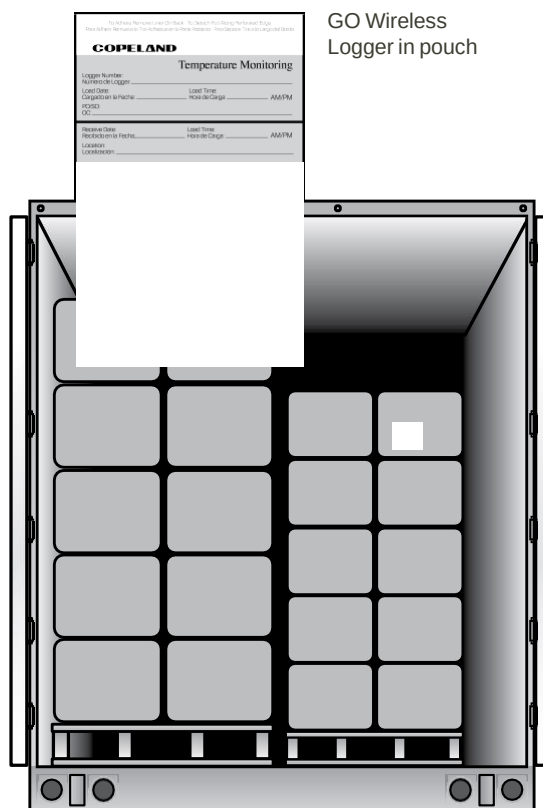
Pallet level - Many customers apply loggers to the side of a pallet. Copeland provides signage and clear plastic pouching to facilitate locating loggers on pallets at the receiving end as depicted in the infographic to the right.

Many customers place several GO Wireless Loggers on different pallets within a load to perform temperature mapping. This promotes broader sampling and provides more detailed information on the temperature fluctuations experienced within a container.

Carton level - Many customers with high-value product where temperature specifications are critical may choose to use Copeland GO Wireless Loggers on each individual carton inside a master case.

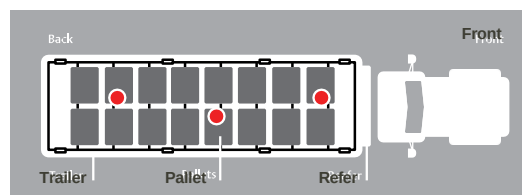
Product level - Loggers are sealed in a plastic pouch and take surface reads of the object to which they are attached. They can be placed in or laid directly on top of product for highly accurate temperature reads.

In order to facilitate finding Copeland GO Wireless Logger temperature monitoring loggers, it is recommended that placement of loggers be clearly flagged on the outside of packaging. Copeland Cargo Solutions provides customers with “Find It” signs upon request. Certain sign models can also be used as return mailers.



GO Wireless
Logger in pouch

Pouch placement on a pallet



Pouch placement within shipping container

GO GreenSense™ program

GO Wireless Loggers can be easily recycled through the GO GreenSense program. GO GreenSense is a recycling program that facilitates the return of Copeland temperature monitoring loggers for proper battery and component recycling. Through the GO GreenSense program, Copeland provides customers with eco-friendly return boxes and pre-paid postage return labels free of charge. Unlike bulky traditional temperature monitoring devices, customers can fit hundreds of temperature loggers in the provided medium-sized box. GO GreenSense takes the hassle out of returning loggers for recycling. For more

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Regulatory approvals

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. Copeland GO Wireless Logger, Model # UWL02G; FCC ID: WPEUWL02G; IC ID: 8031A-UWL02G

Lithium battery exception

Batteries utilized in GO Wireless Loggers are under the weight limit for lithium batteries on airplanes and qualify for an exemption under special provision 188 of §173.185(f) and §173.185 (g) (1) of the Hazardous Materials Regulations (HMR: 49 CFR Sections 171-180).



Technical specifications

Model	UWL02G
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Manufacturer Name	Copeland Cold Chain LP
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RF Module (if applicable): FCC ID	FCC ID: WPEUWL02G IC: 8031A-UWL02G
Alarm configurations	Upper/lower/both/none (consecutive)
EO: sales@eofirm.com www.eofirm.com 0755-84200058 EO: sales@eofirm.com www.eofirm.com 0755-84200058 NIST certificate of traceability available	
EO: sales@eofirm.com www.eofirm.com 0755-84200058 China RoHS, RTCA/DO-160G compliant	
EO: sales@eofirm.com www.eofirm.com 0755-84200058	
In-use life	Up to 30 days, more in-use life with hibernation
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Memory	1922 hard data points
Operating range	-20°C to 60°C (-4°F to 140°F)
Read range	300 feet/91 meters
Recycle options	GO GreenSense™ program
Shelf life	12 months, Frozen SKU: 8 months
Size	2.4 in x 3.3 in (60 mm x 84 mm)
Start delay	Standard 30 minutes, customizable
Temperature accuracy	±0.5°C typical between -20°C to 60°C (-4°F to 140°F)
Temperature resolution	0.1°C
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RF Output Power (EIRP)	2.6 dBm
Operating Supply (Vac, Hz or Vdc) Battery Information	Coin Battery-CR2032
RF Wireless Technology	ISM Sub-GHz

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