

# GO Contact Logger

Temperature monitoring loggers for transit

## Highly Accurate Data with Small Yet Powerful Digital Recorder

GO Contact Loggers are flat, about the size of a sugar packet, and digitally record time and temperature of a product's environment during distribution or storage. Standard temperature range specifications for the most frequently shipped perishable items are pre-programmed into loggers by Emerson. Users simply order the appropriate logger, press the corner button to activate, and attach it to product or product packaging prior to shipping.

GO Contact Loggers sample temperature every minute, ensuring that significant temperature events are captured. Loggers are encased in IP67, food-safe contact packaging and are identified by a unique serial number. They are different than other temperature monitoring devices because they take a surface read of the object to which they are attached, providing a closer approximation of actual product temperature versus general ambient temperature readings. GO Contact Loggers are easy to use and provide incredible insight into what happens to product during distribution.

## Knowledge Empowers

GO Contact Loggers can be read in two ways. First, light emitting diodes (LEDs) indicate if a shipment remained within acceptable temperature specifications. All temperature readings stored in the memory of the GO Contact Loggers can be downloaded via the Contact Reader into a Microsoft Excel spreadsheet using the Emerson SE Software. The download includes a graph, summary statistics, and time/temperature listings in five minute increments.



Flat, small label



Digitally records time and temperature data



Status lights enable quick decisions



IP67



File with a bill of lading or other documentation

## Technical Specifications - Contact Logger

|  |  |
|--|--|
| <b>Alarm Configurations:</b>           | Upper/lower/both/none, Consecutive standard or cumulative via custom order   |
| <b>Alarm Indicators:</b>               | LEDs signify temperature breach  |
| <b>Calibration:</b>                    | Silicon based sensor is calibrated at the time of manufacture by Texas Instruments; NIST certificate of traceability available |
| <b>Certifications:</b>                 | FCC, CE, RCM, China RoHS, WEEE   |
| <b>In-Use Life:</b>                    | Up to 90 days  |
| <b>IP Rating:</b>                      | IP67   |
| <b>Memory:</b>                         | 1922 hard data points  |
| <b>Operating Environment:</b>          | -25°C to 60°C (-13°F to 140°F)   |
| <b>Recycle Options:</b>                | GO GreenSense™ program   |
| <b>Size:</b>                           | 1.8 in x 2.2 in (45 mm X 57 mm) pouched size   |
| <b>Start Delay:</b>                    | Standard 30 minutes, customizable  |
| <b>Temperature Resolution:</b>         | 0.1°C  |
| <b>Temperature Accuracy:</b>           | ± 0.5°C typical between -25°C to 60°C (-13°F to 140°F)   |
| <b>Temperature Sampling Frequency:</b> | One minute, five minute average record   |
| <b>Shelf Life:</b>                     | 15 months  |
| <b>Weight:</b>                         | 11.4 g (0.4 oz)  |

## Technical Specifications - Contact Reader

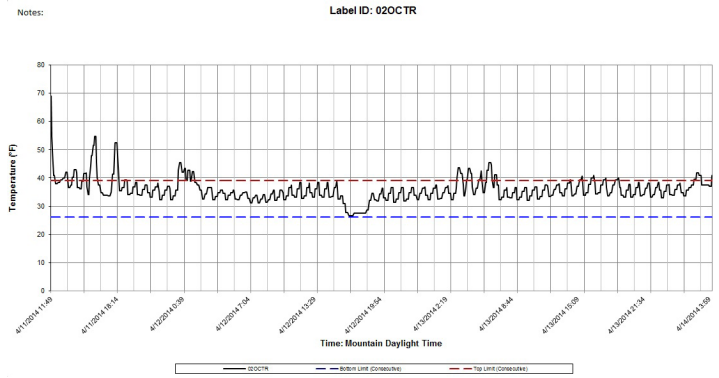
|                            |                          |
|----------------------------|--------------------------|
| <b>Power Consumption :</b> | 2 standard AAA batteries |
| <b>PC connection :</b>     | USB cable (provided)     |

## Technical Specifications - SE Software

|                           |                                   |
|---------------------------|-----------------------------------|
| <b>Operating Systems:</b> | Windows 32 bit, 64 bit and Mac OS |
|---------------------------|-----------------------------------|

### Contact Information

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CargoSolutions@Emerson.com



Sample Graph

| EMERSON<br>Time and Temperature Summary Information |  |  |
|---|--|--|
| <b>Shipping Information</b>                         |  |  |
| Label Serial Number                                 | 02OCTR   |  |
| Label activation time and date                      | 4/11/2014 11:49  |  |
| Receiving Location                                  | Boise  |  |
| Shipment Receiving Date/Stop Date                   | 4/14/2014 4:14   |  |
| Time Zone   | Mountain Daylight Time                                   |  |
| Custom Field 1                                      | Pulp Temp was 38F  |  |
| Custom Field 2                                      | Received by XYZ Trucking                                 |  |
| Custom Field 3                                      | Received by crew 3                                       |  |
| Custom Field 4                                      | Reefer temps checked                                     |  |
| Notes   | Condensation noted on trailer walls, notified supervisor |  |
| <b>PakSense Label Type</b>                          |  |  |
| Label Type  | TW15F-PAK05  |  |
| Cool down period                                    | 0:30   |  |
| Alert Top   | Over 39.0 °F 0:30 Consecutive                            |  |
| Alert Bottom  | Under 26.1 °F 0:30 Consecutive                           |  |
| <b>Temperature Information</b>                      |  |  |
| Average Temperature                                 | 35.7 °F  |  |
| Standard Deviation                                  | 3.8 °F   |  |
| Mean Kinetic Temperature                            | 36.2 °F  |  |
| Maximum Temperature                                 | 54.7 °F  |  |
| Minimum Temperature                                 | 26.6 °F  |  |
| Total time within temperature limits                | 85.3 % 2 Day(s) 6 hour(s) 30 minute(s)                   |  |
| Total time outside Alert Limit Top                  | 14.7 % 0 Day(s) 9 hour(s) 25 minute(s)                   |  |
| Total time outside Alert Limit Bottom               | 0.0 % 0 Day(s) 0 hour(s) 0 minute(s)                     |  |
| Alert Top Degree Minutes                            | 1,827.9  |  |
| Alert Bottom Degree Minutes                         | 0.0  |  |

Sample Summary Statistics



Contact Reader