

Egg Temperature and Humidity Data Loggers Part of the NOMAD® Family

OM-CP-EGGTEMP Series



- ✓ Egg Shipment/Storage
- ✓ OM-CP-EGGTEMP
Temperature Only,
Submersible up to 46 m (150')
- ✓ OM-CP-EGGTEMP-RH
Temperature and Relative
Humidity, Not Submersible
- ✓ Programmable Start Time
- ✓ 0 to 60°C (32 to 140°F)
Temperature Range

The OM-CP-EGGTEMP and OM-CP-EGGTEMP-RH are specifically designed to measure and record the temperature and humidity of eggs during shipping, storage and incubation.

The logger thermally responds to an environment the same way a real egg does, simulating the temperature experience of the actual product.

The OM-CP-EGGTEMP temperature data logger is submersible and can measure temperatures from 0 to 60°C (32 to 140°F).

The OM-CP-EGGTEMP-RH temperature and humidity data logger (not submersible) measures humidity over 0 to 95% RH range and temperature from 0 to 60°C (32 to 140°F).

These data loggers have a user replaceable battery, that typically lasts up to 1 year. The nonvolatile memory can hold up to 32,767 readings and will retain data even if the battery becomes discharged.

Data retrieval is simple. Simply plug it into an available USB port and our user-friendly software does the rest. The software converts a PC into a real-time strip chart recorder.



OM-CP-EGGTEMP
shown actual size.



OM-CP-EGGTEMP-RH
shown actual size.

Data can be viewed in Celsius or Fahrenheit, and in graph, summary or data formats. For further analysis data can also be exported to Excel. The storage medium is non-volatile solid state memory, providing maximum data security even if the battery becomes discharged.

Specifications

TEMPERATURE

Temperature Sensor:
Internal Semiconductor

Temperature Range:
0 to 60°C (32 to 140°F)

Temperature Resolution: 0.1°C

Calibrated Accuracy: ±0.5°C

HUMIDITY

(OM-CP-EGGTEMP-RH only)

Humidity Sensor: Semiconductor

Humidity Range: 0 to 95% RH

Humidity Resolution: 0.5% RH

Calibrated Accuracy: ±3.0% RH
(±2.0%RH typical @ 25°C)

Specified Accuracy Range:

10 to 40°C, 10 to 80% RH
(2.0% RH typical @ 25°C)

Response Time: 90% change in
60 seconds in slow moving air

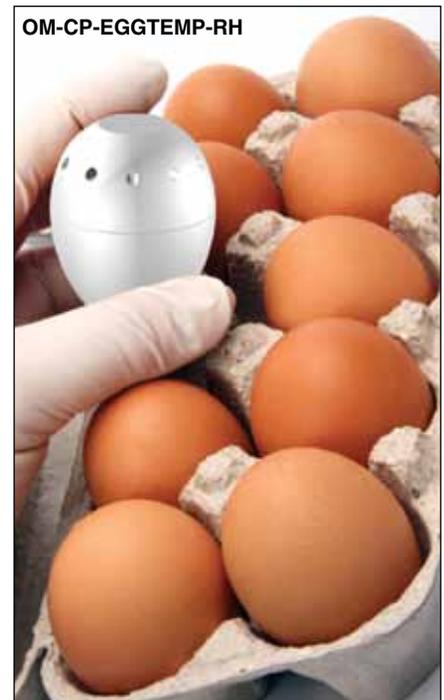
Alarm: Programmable temperature
alarm with high and low limits; Alarm
is activated when temperature
reaches or exceeds set limits.

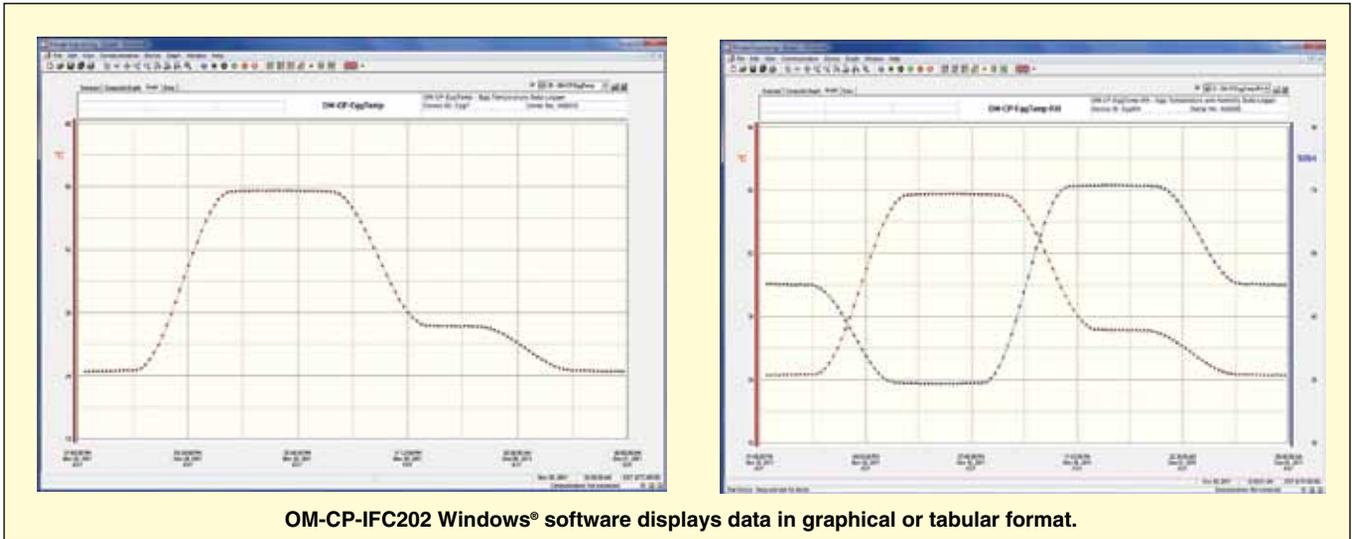
Activity Indicator: Green LED
blinks to indicate device has been
started, red LED blinks if an alarm
condition exists.

Calibration: Digital calibration
through software

Calibration Date: Automatically
recorded within device

Real Time Recording: May be
used with PC to monitor and record
data in real time





Memory:

OM-CP-EGGTEMP: 32,767 temperature readings

OM-CP-EGGTEMP-RH: 16,383 temperature readings and 16,383 humidity readings

Reading Rate: 1 reading every 2 seconds to 1 every 12 hours

Start Modes: Software programmable immediate start or delay start up to six months in advance

Data Format: Date and time stamped °C, °F, K, °R, % RH, mg/ml water vapor concentration

Battery Type: 2 - 1.55V SR1154W silver oxide batteries included; user replaceable

Battery Life: 1 year typical at 25°C, 1 minute reading intervals

Time Accuracy: ± 1 minute/month at 20°C

Computer Interface: PC serial or USB (interface cable required); 38,400 baud

Software: XP SP3/Vista/7 and 8 (32- and 64-bit)

Operating Environment: 0 to 60°C, (32 to 140°F)

OM-CP-EGGTEMP: 0 to 100% RH

OM-CP-EGGTEMP-RH: 0 to 95% RH

Submersible: Up to 46 m (150'), (IP68)

(OM-CP-EGGTEMP only)

Dimensions: 57.15 L x 42.6 mm dia. (2.25 x 1.68")

Weight: 60 g (2.02 oz)

Material:

Enclosure: HDPE

Logger: 303 Stainless Steel

Approvals: CE (OM-CP-EGGTEMP only)



OM-CP-EGGTEMP-RH, data logger inside enclosure, shown smaller than actual size.



OM-CP-EGGTEMP-RH, removed from enclosure, shown smaller than actual size.

To Order

Model No.	Description
OM-CP-EGGTEMP	Egg temperature data logger
OM-CP-EGGTEMP-CERT	Egg temperature data logger and NIST calibration certificate
OM-CP-EGGTEMP-RH	Egg temperature and humidity data logger
OM-CP-EGGTEMP-RH-CERT	Egg temperature and humidity data logger and NIST calibration certificate
OM-CP-IFC202	Windows software and 1.8 m (6') USB interface cable
OM-CP-SVP-SYSTEM	FDA 21 CFR part 11 compliant IQ/OQ/PQ secure software validation workbook and software package (unlimited users, license per computer)
OM-CP-BAT111	Replacement 1.55 V silver oxide battery (2 required)

Comes complete with two 1.55 V silver oxide batteries. Operator's manual and USB interface cable are included with the OM-CP-IFC202 software/cable package (required for data logger operation, sold separately).

Ordering Example: OM-CP-EGGTEMP-CERT, egg temperature data logger with NIST calibration certificate.