

42275 Temperature/Humidity Datalogger Kit

Powerful Datalogger for Recording Temperature and Humidity



Description

The 42275 Temperature/Humidity Datalogger Kit includes a compact datalogger that can record 8,000 time and date stamped readings per parameter.

Powerful Operation

The datalogger operates over a wide range of values: 0-100% relative humidity and -40 to 185°F (-40 to 85°C). You can set the unit's sampling rate from 1 second to two hours, allowing you to record for days, weeks, or months at a time. The datalogger allows for three logging start methods: scheduled, immediate, or magnetic (recording begins when a magnet passes over the back of the datalogger).

Capable Display

The datalogger lets you view both temperature and humidity readings on the unit's three-digit LCD screen. You can select to display temperature readings in either °F or °C. In addition, the datalogger's display will conveniently show 'LO' when the unit's lithium battery nears critical operation levels and needs to be replaced.

Convenient Alarming

You can program the 42275 datalogger with Hi/Lo limits for alarm indication. Alarms are indicated on the datalogger's display when the recorded value is beyond the user programmed high or low values.

Useful Software

The 42275 includes Windows™-based software that allows multiple dataloggers to be programmed from the same docking station. The software also allows data to be stored and analyzed.

Options to Meet Your Needs

The 42275 Temperature/Humidity Datalogger Kit includes the water resistant 42270 Temperature/Humidity Datalogger, a docking station, an interface cable, and Windows™-based software. A spare 42270 datalogger, which requires the software and docking station to function, is also available. For temperature-only applications, we offer the 42265 Temperature Datalogger Kit (with datalogger, docking station, interface cable, and software), as well as a spare IP65 rated 42260 Temperature Datalogger. For portable programming and printing, select from the 42276 or 42266 datalogger/programmer/printer kits (see Ordering & Options section).

Specifications

Display	3-digit multi-function LCD
Front Panel Status LEDs	Two (2): RECORD and ALARM
Temperature Range	-40 to 185°F (-40 to 85°C)
Temperature Resolution	0.1° up to 99.9°; 1° from 100° to 185°
Temperature Accuracy	±1.2°F (0.6°C) from -4 to 122°F (-20 to 50°C) ±2.4°F (1.2°C) all other ranges
Humidity Range and Accuracy	0.0 to 99.9% Relative Humidity; Accuracy: ±3%
Datalogger Storage	42270: 8,000 temperature and 8,000 humidity readings 42260: 8,000 temperature readings
Sampling Rate	Programmable from 1 to 7200 seconds (2 hours)
Power Supply	One (1) CR2 or ½ 'AA' lithium battery
Battery Life	1 year: 5 second sample rate in sleep mode 3.8 months: 24 hour sample rate in non-sleep mode
Low Battery Indicator	Display shows 'LO'
Cable Length	60" (1.50 cm)

Features

- Programmable sampling rate from 1 second to 2 hours
- Hi/Lo limits with alarm indication
- 8,000 readings with time and date stamps
- Three start methods: scheduled, immediate, or magnetic
- Wide operating range
- CE compliant

Applications

Ideal for monitoring in clean rooms, refrigerators, freezers, shipping crates, cargo vessels, warehouses, storage areas, and other critical environments.

Operating Temperature	32 to 104°F (0 to 40°C) (docking station)
Operating Humidity	10 to 80% RH (docking station)
Dimensions	4.9 x 3.6" (124 x 92mm)
Weight	42275: 13.9 oz (394 g) 42260 or 42270: 2.6 oz (72.6 g)

Ordering & Options

Datalogger Kits

Order No.	Description	Price
42275 ¹	Temperature/Humidity Datalogger Kit	\$150.00
42265 ¹	Temperature Datalogger Kit	130.00
42276 ²	Temperature/Humidity Datalogger with Programmer and Printer	390.00
42266 ²	Temperature Datalogger with Programmer and Printer	370.00

- 1) Includes datalogger, docking station, interface cable, and software.
- 2) Includes datalogger, portable programmer, batteries, and a roll of paper. Software and USB cable sold separately (see below).

Replacement Parts & Accessories

Order No.	Description	Price
42270 ³	Spare Temperature/Humidity Datalogger	\$90.00
42260 ³	Spare Temperature Datalogger	70.00
422378	Replacement Thermal Paper (5pk)	13.00
SW276	PC Software and USB Kit	50.00

- 3) Requires software and docking station to function.



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