

# LCD Data Loggers

LCD Series loggers are handheld, high resolution (16 bit) data loggers with a liquid crystal display. The LCD display means that real-time readings can be viewed without having to connect the logger to a computer. The logger contains an integral internal temperature sensor which can be logged separately to its main function. High accuracy and large storage capacity make the LCD series ideal for most industrial and commercial applications.

## Common Features:

- HUGE storage capacity of over 500,000 samples!
- High Accuracy 16 Bit.
- 1 to 5 year battery life depending on usage, user replaceable. Data is retained in the event of battery failure. Battery status monitor on LCD display and in OmniLog software.
- User selectable sampling rate from 1 second to 10 hours in 1 second increments.
- Operating range of -20°C to +70°C (-4°F to +158°F).
- **DLC8USB** [USB] or **DLC8** [RS232] download cable.
- LCD series loggers are designed for indoor use (IP40) but can be supplied with an optional IP66 Weather Proof Enclosure for outdoor use.

[www.intech.co.nz/lcd-loggers](http://www.intech.co.nz/lcd-loggers)

## Humidity



### HT-LCD - Humidity & Temperature

The HT-LCD is a handheld humidity data logger with an integral humidity sensor and liquid crystal display. Both Relative Humidity and Dew Point can be displayed and logged. The HT-LCD uses a Sensirion SHT11 digital humidity sensor giving  $\pm 3.0\%$ RH accuracy from 20%RH to 80%RH.

This logger is designed for indoor use (IP 40). For outdoor applications, we recommend a THT-LCD with a IP66 Weather Proof Enclosure. The THT-LCD logger is identical to the HT-LCD logger, except that it has an external Humidity/Temperature probe.

### THT-LCD - Humidity & Dual Temperature

The THT-LCD is a handheld humidity data logger with an external humidity and temperature probe and a liquid crystal display. Both Relative Humidity and Dew Point can be displayed and logged.

There are two external Humidity/Temperature probes available for the THT-LCD:

- The HT11-Probe uses a Sensirion SHT11 digital humidity sensor giving  $\pm 3.0\%$ RH accuracy from 20%RH to 80%RH.
- The HT15-Probe uses a Sensirion SHT15 digital humidity sensor giving  $\pm 2.0\%$ RH accuracy from 10%RH to 90%RH.

The probe is connected to a socket on the end plate at the top of the logger. The probe cable is 1.5 meters in length.



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## Temperature



### Tc-LCD - Thermocouple

The Tc-LCD is a handheld two channel high resolution (16 bit) temperature data logger with a liquid crystal display. The logger connects to an external thermocouple probe and also has an internal temperature sensor for convenient logging of ambient temperature if desired.

The logger accepts Type J,K,N,R and T thermocouple probes (factory set to type K). The display shows ambient temperature, thermocouple temperature, battery voltage, logger and alarm status. The logger uses the standard NIST (National Institute of Standards and Technology) equations to calculate, display and log temperatures from the various thermocouple probe types.

*Please Note: Tc-LCD data loggers are not supplied with a thermocouple probe. These can be ordered separately from Intech Instruments if required.*

### Pt-LCD - RTD (Pt100, Pt500 & Pt1000)

The Pt-LCD is a handheld, high resolution (16 bit) temperature data logger with a liquid crystal display. The logger connects to an external RTD probe and also has an internal temperature sensor for convenient logging of ambient temperature if desired.

The logger accepts Pt-100, Pt-500 and Pt-1000 probes. The display shows the RTD temperature, logger internal temperature, battery voltage, logger and alarm status.

*Please Note: Pt-LCD data loggers are not supplied with an RTD probe. These can be ordered separately from Intech Instruments if required.*



## Pressure



### P-LCD - Pressure

The P-LCD is a handheld, high resolution (16 bit) pressure data logger with a liquid crystal display. The logger connects to an external gauge pressure sensor and also has an internal temperature sensor for convenient logging of ambient temperature if desired. The logger accepts a range of pressure sensors from 100psi to 500psi.

The sensors are suitable for the measurement of liquid or gas pressure including difficult media such as contaminated water, steam and mildly corrosive liquids or gasses. The pressure sensor (with 500mm of cable) connects to a miniature connector socket on the P-LCD.