Industrial Temperature Loggers Connect PLCs & Equipment

CAS Dataloggers Offers Value-added Services

Do you need to monitor the temperature of industrial equipment or an industrial process? At CAS DataLoggers, we sell hundreds of temperature monitoring devices and systems each year. Our industrial temperature data loggers are ideal for a wide variety of applications including, equipment or process monitoring, oven temperature profiling, and more. We've put together this quick guide exploring some of our industrial data loggers, that replace the need for manual measurements and help you reduce costs and optimize production.

Data Logger Types:

Broadly speaking, our temperature data loggers for any industry can be divided into 2 categories:

- **Single-input type data loggers** are designed to measure one specific parameter such as temperature. These loggers are available with 1 to 8 channels and are ideal for smaller applications where cost is a concern.
- **Universal input data loggers** are available in configurations of up to hundreds of input channels. Combined with their ability to measure multiple signal types such as temperature, voltage, and 4-20 mA current, they can be used to record data from multiple points on a piece of equipment or within a process.

Our rugged and reliable, intelligent data loggers offer a host of features for configuration, communications, data capture, and data analysis. For example, many data loggers have communications ports such as **Modbus** that allow them to be easily

interfaced with other equipment such as PLCs, HMIs, or other intelligent sensors.

Find The Perfect Product:

Our data loggers are ideal for temperature monitoring in many applications including **process monitoring**, **temperature profiling**, **fault identification**, **process documentation**, **R&D, and more**. At CAS DataLoggers, our **Applications Specialists** know the right questions to ask to determine the ideal temperature monitoring system for your application. These include:

* How often do you need to take a sample?
* How much data do you need to store?
* Do you require a real-time display?
* Do you need an alarm either locally or remotely?
* How do you want to connect to view or retrieve the data?

We also understand that cost is important so we offer you competitive pricing along with the added value that goes beyond just price. Here are a few manufacturers producing popular industrial temperature monitoring solutions:

DataTaker:

dataTaker systems are sophisticated and versatile data loggers with the ability to connect to almost any sensor input. They also offer powerful alarm and programming capabilities allowing them to process measurements and initiate actions on their own. For example, the dataTaker DT80 is an intelligent data logger with an extensive array of features allowing it to be used across many different applications. The dataTaker DT80 allows up to 10 isolated or 15 common

ground analog inputs to be used in many combinations.

This robust, stand-alone, low-power data logger features USB memory stick support, 18-bit measurement resolution, extensive communications capabilities, and a built-in display. The DT80 also offers support for Modbus for SCADA systems and FTP for automated data transfer. Communications features USB, and Ethernet for connection to the host PC or network. The dEX software provided with the logger allows you to configure the inputs and sampling, see current measurements on a dashboard or in a list and download logged data. Serial sensors and other intelligent devices are supported via 2 ports (RS232 and RS232/RS422/485).

Novus:

CAS also offers the Novus FieldLogger, a versatile and cost-effective industrial data logger which records analog and digital signals at high resolution and speed. With Novus, users can also create a customized system using Modbus expansion modules and wireless communication accessories. Easy to configure and operate, the FieldLogger has 8 configurable analog inputs that can read thermocouples, RTDs, voltage, and current signals. This logger also has 2 relay outputs and 8 digital ports individually configurable as inputs or outputs. The RS485 interface can operate as a Modbus RTU master or slave.

TandD:

The T&D RTR-500B Series of Wireless data loggers use small battery-powered transmitters that come in a variety of models for temperature, humidity, voltage, etc. along with base stations available in Ethernet, WiFi, USB, and cellular versions that communicate using a proprietary 900 MHz wireless signal. They can automatically send live

data, recorded data, and alarms for remote data collection. These data loggers will also send you a 'back to normal' alarm as soon as temperatures go back to safe levels. This allows you to manage your important temperature data anytime from anywhere—even from your mobile device.

For example, data can be sent from an [RTR-502B temperature data logger](#) via the built-in wireless communication to a T&D RTR-500BW Wireless Base Station. The wireless communication range between a Remote Unit and a Base Unit is up to 500 ft. (150 meters). You can easily expand the wireless communication range by using an RTR-500BC as a Repeater.

For other applications, T&D also offers a range of 2-channel temperature data loggers, the TR-7A family with WiFi and Bluetooth and the TR-7NW family with Ethernet and Bluetooth. The units are ideal for monitoring coolers, refrigerators, and freezers.

All of these devices are compatible with **T&D's free WebStorage Service** which provides the perfect way to monitor current readings and view your recorded data via the Internet. This free cloud service is ideal for processing and managing data recorded in remote places or for allowing several people to view the same recorded data at their convenience. Data transmitted to T&D WebStorage Service can be accessed via your browser from anywhere, anytime. The Service also provides alarm notifications either via email or push notifications through the T&D Thermo app (TR7 only).

The Data Logger Experts:

We are experts; not only can we provide you with a temperature measurement system, we can also help you to select the correct sensors and provide FREE on-call support, repair and calibration services that you can't get from a catalog house. Give our Application Specialists a call today at **800-956-4437** or visit our website at [www.DataLoggerInc.com](#).