

The new Scorpion data logger

THE NEW SCORPION 2 FROM READING THERMAL SYSTEMS WITH ITS 32 INPUT CHANNELS IS A MAJOR UPGRADE FOR DATA LOGGING IN BAKING, DRYING AND COOLING PROCESSES



✚ The Scorpion 2, the successor of the well known Data Logger from Reading Thermal Systems, Sinking Spring, Pennsylvania, USA, collects a complete set of profiles such as temperature, airflow, heat flux and humidity in a very short time without the need for a computer on the factory floor. The data are downloaded to a computer, via direct USB connection, wherever it is. The Data Logger is capable of collecting and storing up to 32 hours of profile data in 4 second increments. During this time, multiple profiles can be collected without downloading data to a computer between runs.

32 input channels allow side-to-side temperature and air-flow measurements on conveyor widths ranging from 300 mm (11.8") to 2000 mm (78.75"), with no more than 127 mm (5") between sensors /measurement points across the conveyor band. It is possible to select scan rates from 0.1 seconds to 4.0 seconds on the data logger face. A 0.1 second scan rate is extremely useful for fast processes - i.e., a sample every 5 cm (2") in a 0.5 m/sec (100 ft/min) process.

The Scorpion 2 Smart Sensors are easy to use. The technology allows the Data Logger to automatically recognize the attached sensor and collect profile data. It simplifies the data

collection process and enables line workers without specialized training to handle test runs. Data from each run is stored in the data logger and can be downloaded for analysis in a convenient office location at a later time. All sensors (temperature, air velocity, heat flux and humidity) contain embedded memory which is programmed during manufacturing, follow-up repairs and calibrations. Sensor calibration data is stored in the sensor which eliminates the need to keep track of calibration files previously stored on computers. Immediately upon connection to the data logger, a communication link is established and a "self test" is started. When completed, a green ready light will appear on the data logger face.

The new software version 8 has customer driven, user friendly enhancements with traditional on-screen displays, so there is no need to relearn the data analysis/interpretation process. SV8 supports the simultaneous use of a Scorpion 2 Data Logger and an older Scorpion Data Logger. Each has its own toolbar button for communication, allowing users with mixed hardware to use a single software program. The SV8 can open all previous profile data collected with SV5, SV6 or SV7. +++

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