MicroDataLogger™ Technical Bulletin

DATE: July 1, 1996

SUBJECT: Configuring warm-up times

The MicroDataLogger® (MDL) has a Sensor Power supply that can be configured to provide 12 volt DC power for sensors and modules. Only User Configurable Modules (5 volt, 20 mA, etc.) can have their Warm-up times adjusted. These modules are typically used to input signals from sensors and transducers.

When an external sensor is powered by the MDL, the 12 volt Sensor Power may need to be turned on before taking a reading to allow the output signal to stabilize. This delay time between when the power is turned on to when the reading is taken is called the "Warm-up Time". The default Warm-up Time for most modules is one tenth of a second (100 mS). Depending on the electrical characteristics of the sensor, the default Warm-up Time may need to be increased. Check the sensor manufacturers specifications for how long it takes the output signal to become stable after the power is turned on.

If the external sensor is not powered by the MDL the default Warm-up Time should not be changed. Some modules require a minimum Warm-up Time and can not be adjusted below that minimum. If the Warm-up Time is set to zero, 12 volt Sensor Power will not be available at the terminal block connection.