



Record RPM or Totalize Revolutions with the PULSE101 Compact Data Logger

The PULSE 101 can be used to record RPM when matched with Monarch Instrument Tachometers and Sensors. A typical system would include a remote sensor and a panel tachometer with a TTL Pulse Output representative of rpm. This TTL pulse provides the input into the Compact Data Logger (CDL). With one pulse per revolution, the maximum speed that can be measured is 6000 RPM. The CDL's maximum pulse rate is 100 pulses per second = 6000 per minute. Set the sample rate for the CDL to 1 minute and it will record the number of pulses captured per minute, thus measuring RPM. Every minute a new data point is recorded that represents the total pulses or revolutions in that minute. The software Graph Summary will provide a Total of the revolutions.

Select the Monarch Instrument ACT-3/115 Tach/Totalizer Model as it provides the necessary TTL pulse output. Its display of RPM is especially useful during set up. Select an ROS-W (Remote Optical Sensor) if you can put reflective tape on the rotating part. Operating range of the ROS-W is 2 to 36 inches. The IRS-W (Infrared Sensor) is popular if the target has contrasting colors. The IRS-W must be mounted 1/2" away from the rotating target. Both sensors can shoot through glass housings.

To complete the system, order the Pulse 101 CDL and the IFC110 interface cable and software. Connect, program and you are ready to log RPM readings.



REAL TIME PLOT OF RPM

jwh 9/9/04- Monarch Instrument