

USING DELPHIN PROFISIGNAL SOFTWARE STOPWATCH FUNCTION TO FIND TRAIN LENGTH

Powerful ProfiSignal Go Data Acquisition Software for Analysis

A Delphin data acquisition system from **CAS DataLoggers**, such as the highly accurate **Expert Key** or **LogMessage** devices, can be used in a train yard for many different applications. These advanced monitoring and control systems are ideal for monitoring the weight of freight cars, counting cars coming on and off sidings, monitoring motor functions and efficiency on yard engines, and many more. One such use in a train yard would be to use the **ProfiSignal Go** software's convenient Stopwatch function to quickly calculate the length of trains entering and leaving the yard. It's easy to learn and use Stopwatch this way to free up time otherwise spent on manual measurement.

At this point in the traffic flow, the trains have a steady set speed. All that needs to be done is to have a digital input of some type (such as an inexpensive optical sensor) set as the trigger to start and stop the software's Stopwatch function. Then it's easy to calculate the length of each train by multiplying the Stopwatch time by the approximate speed of the train. The triggers would be the rising edge of the signal to start, and the falling edge of the signal to stop. It would also be advisable to put a small delay in the optical sensor to keep it from tripping between cars. This quick function helps workers automate their operation to get a real-time view of conditions and status indicators.

Delphin's real-time systems see common use in industrial and laboratory measurement data acquisition, vibration monitoring and analysis, remote monitoring of plant and machinery, and more. CAS DataLoggers offers Delphin's high-powered data acquisition devices which measure temperature, pressure, flow, voltage and vibration in a wide variety of research, testing and process control applications. These systems feature different analog and digital input and output modules that can be used with a wide range of signal types including 4-20 mA current, thermocouples, RTDs, and resistance. Delphin systems also offer powerful alarm and programming capabilities which allow them to process measurements and initiate actions on their own, and can be used for local data acquisition and logging when connected to a PC, for remote unattended data collection connected the internet, or as stand-alone devices.

CAS DataLoggers provides configuration assistance, custom programming, custom system design and assembly, post-sales technical support, and repair and calibration

services. Our development capabilities include custom data acquisition and data logging systems, test and measurement systems, and portable data collection systems.