



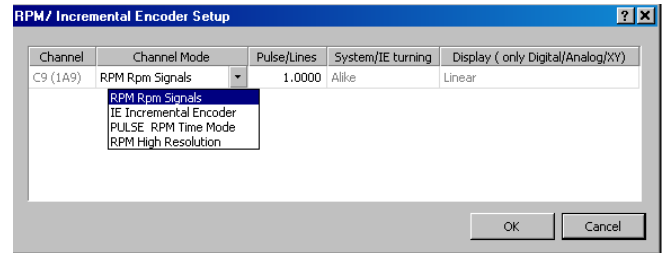
Pimento Solutions

P-4080 Tacho Support

The Pimento Tacho support activates the pre-installed dedicated tacho channel of the Pimento hardware.

With the Pimento Tacho support, you are able to deploy this dedicated channel to automatically convert tacho pulses to RPM for the case of high RPM ranges. During data acquisition, data is acquired at pre-defined RPM intervals with a fixed sampling rate. Depending on the application, the time data can be transferred to the order domain, or can be on-line filtered to generate 1/3rd-octave spectra as a function of the engine's rotational speed.

The tacho channel supports overlap processing to track very fast run-ups or coast-downs. To support different applications, the tacho channel can operate in "revolution mode" (calculate the revolution from the time intervals between two consecutive pulses), "incremental encoder mode" (impulses are counted and recorded according to their direction -angles of rotation) or "pulse mode" (impulses are converted internally with a square signal). Tracking characteristics of the tacho support can be set to "run-up", "run-down" or "run-up/down".



Key Features

- Validation of tacho signal via oscilloscope
- Automatic tacho pulse to RPM conversion for high RPM ranges
- Availability of RPM as an extra digital channel
- Support of incremental encoder

Product Requirement

- Pimento Front-end Driver (P-4400 / P-4410) and
- Pimento FFT analyzer (P-4000) or
- Pimento Octave analyzer (P-4040) or
- Pimento Order analyzer (P-4060) or
- Pimento Recorder (P-44070) and
- Pimento Tacho support (P-4080)