



New Stand-Alone Tach100 Tachometer Now Available

Compact, panel-mount tachometer is ideal for local or remote speed indication

Highly accurate indication of rotational speed is a fundamental instrumentation requirement for many machines. Tachometers using a 4-20mA input signal are rarely capable of providing the necessary accuracy or resolution; instead, tachometers accepting a pulse-train signal from a once-per-turn or multiple-event-per-turn transducer are preferred due to the superior resolution and accuracy this type of input signal can provide.

For more than 35 years, the Bently Nevada* product line has featured a variety of stand-alone tachometers as well as tachometer modules used in our rack-based machinery monitoring systems. For the reason noted above, these tachometers are designed to work with a proximity probe input from a once-per-turn shaft discontinuity, such as a key or keyway, or a multi-event-per-turn precision toothed wheel.

One of our most popular tachometer styles over the years has been the 37506A, a small panel-mount indicator with a large, easy-to-read display. Customers continue to find many applications for the 37506A, but it is becoming increasingly difficult to support due to the diminishing availability of certain parts. Our goal was to provide an updated tachometer that retained the same physical dimensions and functionality as the 37506A, but with updated electronics. The new Tach100 is the result.

The Tach100 is designed to support the same applications as the 37506A, such as stand-alone scenario when speed indication is required locally at the machine, or at a remote location such as a control room. Another very common application of the tachometer is when speed indication is required in two separate locations simultaneously. Often, a monitoring rack with an installed tachometer will already be available in one location, such as a control room or instrument shelter. The Tach100 can be installed in parallel with the monitoring system, sharing the same transducer input signal, but providing speed indication in a secondary location, such as the machine's control panel.

Additional information and diagrams showing typical installation scenarios are available in the Tach100's datasheet. You can obtain a copy by contacting your nearest GE Energy sales professional specializing in Bently Nevada Asset Condition Monitoring products, by using the Reader Service Card in this issue of ORBIT, or by accessing the online version of the Reader Service Card at www.orbit-magazine.com.

*Denotes a trademark of the General Electric Company.

¹When retrofitting systems using older +15Vdc tach drivers, contact your local sales professional for assistance. These applications require upgrading the transducer system to newer -24Vdc technology.

²When retrofitting systems using older -18Vdc proximity probe technology, a voltage adapter is available that converts -24Vdc transducer power to -18Vdc.

Key Features

- Compatible with newer -24Vdc proximity transducers^{1,2}
- 1 rpm resolution with improved accuracy (+/- 0.15% of true RPM)
- Front-panel adjustment of trigger levels and event-per-turn settings
- Same physical dimensions as 37506A, making retrofits simple
- Compatible with 37506A accessories, such as hood to block direct sunlight and weatherproof housings for outdoor installations



Sharing the same physical dimensions and features, the new Tach100 (left) is a comprehensive update to our popular 37506A panel-mount tachometer (right).