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Now certified for valve positioners of automatic furnace equipment:

Robust industrial potentiometers now available for burners

In providing absolute measurement values, conductive plastic potentiometers provide their position signals in "real-time" without errors due to delay. They are reliable and not negatively affected by rough environmental conditions or high temperatures. In addition, the angle sensors are relatively inexpensive, something that suits many industrial and mobile applications. Even in automatic firing units, one can profit from these advantages today.

With the SP 28 Novotechnik offers a robust industrial potentiometer that has already proven itself in various industrial and mobile applications. The versatile angle sensor has now been certified by TÜV Süd [German national testing agency] for use in automatic firing units and can therefore be used for exact and reliable position detection of regulating equipment in electronic systems for controlling and monitoring of fuel, air, and exhaust streams. It was tested according to DIN EN 12067-2:2004-06, "Gas, air, and compound equipment for gas burners and gas devices: Part 2: Electronic performance." After functionality, durability and temperature change tests all the relevant indicators fell within the tolerances given by the manufacturer. Vibrations hardly affected the functionality of

the potentiometers, nor did moisture or temperature fluctuations between -40 and +150° C. The glow wire test at 850° C on the highly resistant plastic housing gave no rise to complaints. This robustness, now also confirmed by a neutral source, can be used not only by manufacturers of firing equipment, but also by all users, who require reliable sensory devices for tough application conditions.

The continuous rotation potentiometer is suited for a measurement angle of up to 345° and regulating speeds of up to 120 RPM. Resolutions of <0.01° and repeatability of 0.03° are feasible. The linearity is given as +/- 0.3%. The very compact angle sensor with a diameter of only 28 mm can easily be integrated into a number of applications. Attachment loops with slotted holes facilitate installation and enable a mechanical adjustment. This socket coupling makes assembly not only faster, but it also guarantees a connection without play. The electrical connection can be either by plaited bands or standard plug connections. The large connection diameter also allows for an attachment with screw clamps.

Illustration: Now certified for settings regulators of automatic furnace equipment:
A robust industrial potentiometer for many uses (Photo: Novotechnik)

About Novotechnik

Novotechnik with headquarters in Ostfildern in Swabia, Germany has been a leader in the development of measuring technology for more than 60 years. In Germany alone over 200 employees work at peak performance. This results in high-performance travel and angle sensors, that are today indispensable for production, control and measurement technology as well as automobiles around the world. The very wide product line includes travel and angle sensors of various functional principles, special solutions for the automotive area, measuring transducers, and measuring devices. These cover practically all the imaginable tasks; custom-made solutions are available for special application needs.

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Contact:
Sabine Peiler, E-Mail: peiler@novotechnik.de
Telefon: +49 711 4489-167, Fax: +49 711 4489-118