

High-precision temperature measurement in the EtherCAT Terminal system

Reproducible measurements through certified precision

The EL3201-0020 temperature measurement terminal is a new addition to the generation of high-precision analog equipment from Beckhoff. Due to the high basic accuracy, the measuring error is reduced to ± 0.1 K of the temperature measuring range. The factory calibration is recorded in an individual certificate, as required for high-precision measuring equipment. Such dedicated measurement technology is the basis for integration of high-performance and high-precision measurement technology without special components.



The EL3201-0020 EtherCAT Terminal enables direct connection of a resistance sensor (PT100) using 4-wire technology. The characteristic curves of the sensors are implemented over their complete measuring range and are made available to the higher-level control system in a suitably linearized form.

The EtherCAT Terminal system offers users simple solutions for integration of high-precision measurement technology without the need for complex familiarization. Reliable reproducibility of results is becoming increasingly important in a wide range of automation applications in order

to optimize parameters and ensure verifiability, for example for online quality monitoring in running processes. Beckhoff meets these requirements with a calibration certificate that authenticates the measuring accuracy of the terminal and the exact measuring error. Online download of the certificate based on the serial number and terminal handling similar to common analog terminals make the application of high-precision measurement technology very convenient.

www.beckhoff.com/EL3201