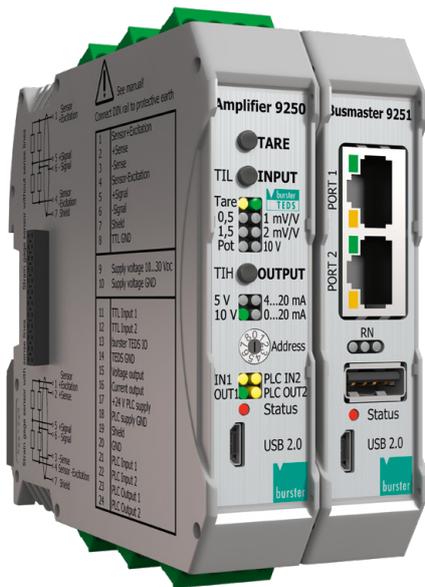


Universal Instrumentation Amplifier for strain gage, potentiometric, DC/DC and incremental sensors

MODEL 9250 NEW

Preliminary data sheet



Highlights

- Ultra-fast pushbutton configuration
- Non-linearity < 0,005 % F.S.
- Outputs ± 10 V, ± 5 V and 0 (4) - 20 mA
- 6 wire technique
- Automatic sensor recognition due to burster TEDS
- Adjustable cut-off frequencies
- Versatile configuration using DigiVision PC software via USB port

Options

- Digital I/O to the PLC
- Increased sampling rate up to 14.4 kHz
- Interface for the connection to bus controller 9251
- TTL input for incremental sensors

Applications

- All areas of mechanical engineering
- Assembly and joining equipment
- Hydraulic presses
- Measurement of cable strengths

Product description

The new 9250/9251 amplifier generation unites all the features that make modern measurement data acquisition actually possible for the first time. Network-compatible, high-precision, user-friendly, smart and versatile: the combined system of amplifier module and bus controller can be integrated into any existing setup. The amplifier 9250 takes signals exactly to the point where they can be combined, monitored and linked efficiently to other data. The fieldbus interfaces give you flexibility, speed and perfect connections, and save you time, money and other resources when integrating your measurement setup with existing systems. Automatic sensor recognition due to burster TEDS lets you play absolutely safe, protecting you from setting incorrect parameters.

The broad supply voltage range permits operation on standard power supplies used in switch gear cabinets. A highly accurate precision amplifier performs the amplification of the sensor signal being applied. The latest microprocessor technology made a 24 bit AD conversion with high accuracy possible. The sensor excitation is performed by the amplifier module itself so that no additional voltage source is required. It can also be set in steps of 2.5 V, 5 V, 10 V using configuration software DigiVision. The maximum feed current of 40 mA permits parallel connection of several strain gages sensors, e.g. for the addition of measurement variables. Measurement errors brought about by varying line lengths or due to temperature fluctuations effecting the sensor cable are avoided by having probe lines measuring the actual feed voltage directly on site at the sensor itself (6 wire technology). The cut-off frequency of the amplifier can be switched between 10 Hz and 1 kHz.



Amplifier module 9250



Bus controller 9251



8 measurement channels

