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DSP Unit Digital Signal Processor Z4



The compact, programmable Signal Processor is designed for a universal use with various functions.

- Digital SG- amplifier
- Multiplier / Voltage- controlled- amplifier
- PID Controller
- Potenzial Isolation / impedance transformer

Best Temperature and long- term stability, as well as high measurement accuracy is achieved by digital measurement accuracy.

The galvanic isolation on the sensor signals guarantees reliable signal processing.

The configuration on the desired functions is carried out at the factory by software. According to the function, the external wiring is different. A comprehensive software package with data logger-function characterized this device.

Size:

Compact case (plastic) for Mounting on DIN rail EN Installation dimensions: 108x 22,5x 115mm (Hx Wx D)

Signal inputs:

SG- Sensors half- or full bridge circuit

Special features:

High noise immunity and service reliability

Direct, 24V DC Power supply, reverse polarity protection, with wide Input Voltage Range 18...30VDC, LED operation display, Integrated DC/DC converter for galvanic isolation between power supply and measuring circuit.

High stable Bridge Voltage to power the Sensor Adjustment of the Sensor via software

Connection of power supply and output signals via screw terminal

Data-logger Measurements – Recording up to 32h possible



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Technical Data DSP Unit:

Connectable Sensors: Bridge supply Accuracy of power Temperature drift of bridge supply voltage Setting Range Nominal gain Gnom Nominal Measuring Range Usig Input impedance Cut- off frequency (-3dB)

Output Standard Software switchable

AD- Converter Input Control range Zero

Temperature range Operating temperature Storage temperature Temperature dependency per 10°C to the zero at the amplifier output

Supply voltage

Power consumption

Connection measuring amplifier

Connection Sensor

Protection class Weight Size (HxWxD) Mounting >150 Ω SG- Full Bridge 5V corresponding to Ground (GND) 0,2% 10ppm/°C 200...10.000 2000 5 mV 1 MΩ approx. 500 Hz absolute Signal absolute Signal Bridge Signal 2.5V 60% of the AD- Converter input 0...+60°C 0...+60°C -25...+75°C 0,6 .mV 18...30 VDC max. 3W - integrated DC/DC Converter for galvanic isolation between supply and Measuring circuit Screw terminals for flexible cable 0,2...2,5 mm² Screw terminals for flexible cable 0,2...2,5 mm² **IP20** approx. 200g Compact housing (108x 22,5x 115 mm) Snap- in mounting on DIN rail EN