

# Digital amplifier for dynamic applications

EZE20X006



## **Description**

Digital measuring amplifiers condition the output signal of strain gauge force transducers to an attached control system. The serial RS-422/485-interface enables the signal to be processed directly in the SPS control system and the operation of up to 32 measuring amplifiers in one bus.

The high accuracy and speed of this digital measuring amplifier make it equally suited for weighing applications, fast force measurements and force monitoring on machines. ASCII commands are available for the free programming of the measuring amplifier. With a communications programme, as for example Terminal, it is easy and quick to set up the communication with a PC and parameterise the device. A Windows software programme with an oscilloscope function is also available as an optional extra. assembly can be done by means of pillar plugs on a printed circuit board or in the control cubicle on top hat rails (as specified in DIN EN 50 022), by an optional adapter board with Phoenix-screw terminals. Any strain gauge force transducer which is driven by direct current can be connected. Interference signals can be reduced by the comprehensive filter setting possibilities.

The supply voltage of more than 12 up to 24 Volt guarantees a direct connection to an SPS control system since this generally has a 24 Volt supply voltage.

### **Features**

- RS-422/485-port
- Baud rate from 9.6 to 115.2 kBaud
- Internally 1200 digitisations per second
- Very simple and logical ASCII-command syntax
- Fully bi-directional electronic control system over the port
- 6-wire technology with sense-system

# **Applications**

- Industrial weighing technology
- Force measurement in automation systems
- Force monitoring on machines

#### **Specific information**

- 2 optically isolated logical inputs, 10 ... 30 V, max. 3mA; status can be queried by software
- Optional: Adapter board with RS422<>RS232-converter

Model: EZE20X006

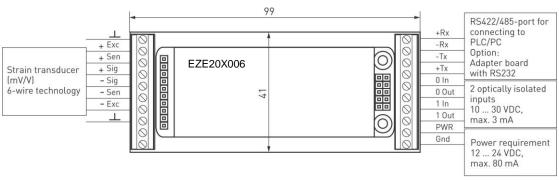
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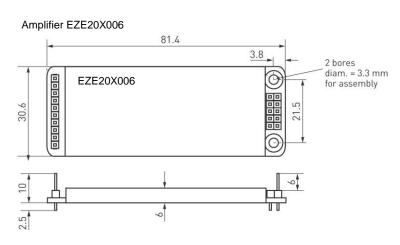
## **Technical data**

Model	EZE20X006
Output	
- Signal	RS-485 or RS-422, full duplex, 9600 115200 Baud,
	bus-capable up to 32 units; at the serial output up to 600
	measurements/sec.
- Accuracy	0.002%
Input	
- Signal	± 2.2 ±11 mV; 6-wire
<ul> <li>Sensor supply</li> </ul>	5 V DC, max. 15 mA
- Auflösung	up to ±260.000 d, ±18-Bit-A/D-converter, output max. +/- 99.999 D
	up to 1200 measurements/sec. internal
<ul> <li>Grenzfrequenz</li> </ul>	digital filter 0.1 20 Hz
	adjustable in 8 stages
Setting	Via software using ASCII-commands;
	Gross, tare, net, filter, calibration, tara, zero-setting-resolution etc.
Power requirement	1224 VDC +/-10 %, < 40 mA, not electrolytically isolated
Nominal temperature range	-10°C +40°C
Service temperature range	-10°C +40°C
Storage temperature range	-20°C +50°C
Temperature effect	
<ul> <li>Zero point</li> </ul>	0.05% /10 K; Output current 0.04% /10 K
<ul> <li>Measuring span</li> </ul>	0.02% /10 K; Output current 0.04% /10 K
Noise emission	acc. to EN 61326
Noise immunity	acc. to EN 61326
Protection type (acc. to EN 60 529/IEC 529)	IP 40 (additional housing IP 65 upon request)
Electrical connection	Terminal block, screw terminals (adapter board)
Housing	For top hat rails acc. to DIN EN 50 022
- Material	Tin-plated metal
- Dimensions (W x H x D)	81.3 x 30.6 x 5.6 mm; with adapter board 99 x 41 x 12 mm
Weight	approx. 30g; with adapter board approx. 50g
EMV / CE-Conformity	CE 73/23/EEC; 93/98/EEC and 89/336/EEC; OIML R76 up to 3000d

## **Dimensions**

## Amplifier EZE20X006 with optional adapter board





Subject of technical changes