

# Digital amplifier cable version with USB



## **Description**

The amplifier EZE21 allows the connection of a sensor via the USB interface to a PC, and the evaluation with the software VASUSB. The measured values are transferred and visualized by the software via the USB interface.

Thus, analog sensor signals with up to 16 Bit resolution are digitized. With the high dynamics of up to 5000 measurements/s, fastest measuring tasks are realizable.

If 100% calibration control is integrated in the sensor (see data sheet), an automatic calibration can be accomplished, which is auditable at any time (monitoring of the measuring chain).

The practical housing with a high level of protection allows fast fixation by a screwing clamp. In larger sensors, the circuit board module can be integrated as well.

The connection to LabView or integration into your own programs is also possible with a freely available driver package.

Different sensors types are scheduled for the connection:

### **Features**

- Supply via USB
- Up to 16 Bit resolution
- Input for mV, V and mA (2 and 3 wire)
- Fast measurement up to 5000/s
- Calibration and control trigger via software (optional)
- Integrable in many sensors by SMD miniaturization
- · Compact design
- Easy handling
- Protection type IP 67
- Input filter for mush killing
- Usable in heaw industrie
- Free evaluation software VASUSB for PC

#### **Applications**

- Industrial weighing technology
- Force monitoring and measurement on machines

Option	EZE21XUSB1	EZE21XUSB2	EZE21XUSB3	EZE21XUSB4
Power supply	4 V max. 20 mA	12 V max. 80 mA	12 V max. 80 mA	12 V max. 80 mA
Input signal	0.353.0 mV/V	0±1 V0±5 V	0±1 V0±10 V	020 mA/420 mA (Option: 10±10 mA/12±8 mA)

Model: EZE21

# **Technical data**

Туре		Cable version v	with USB EZE21	
Symbol				
Order-No.	EZE21XUSB1	EZE21XUSB2	EZE21XUSB3	EZE21XUSB4
Supply from USB	46 V DC max. 350 mA			
Excitation	4 V max. 20 mA	12 V max. 80 mA	12 V max. 80 mA	12 V max. 80 mA
Measured values	0±3 <b>mV/V</b> = ±30000 Digit	0±5 <b>V</b> = ±25000 Digit	0±10 <b>V</b> = ±25000 Digit	0/420 <b>m A</b> = 0/400020000 Digit
Resolution	1 mV/V = 10000 Digit	1 V = 5000 Digit	1 V = 2500 Digit	1 mA = 1000 Digit
Zero point		0 D	igits	
Input resistance	> 1 MΩ	> 1 MΩ	> 1 MΩ	62 Ω (Bürde)
Measuring rate		max. 500	0 Mess./s	
Accuracy		±32	Digits	
Linearity error		±32	Digits	
Nominal temperature		+10°C	+40°C	
Service temperature		0°C	+50°C	
Storage temperature		-10°C	. +70°C	
Temperatureinfluss		4 Bit/	10 K	
Noise emission		acc. to E	EN 61326	
Noise immunity		acc. to E	EN 61326	
Protection type (acc. to EN 60529/IEC 529)		IP	67	
Housing				
- Material		Alun	ninum	
<ul> <li>Dimensions</li> </ul>		Ø 25 mm	x 115 mm	
Max. cable length to sensor		1 m (m	ax. 3 m)	
USB cable length		2	m	
Option		Measuring and evaluat	tion software VASUSB	

# PC software for USB amplifier EZE21

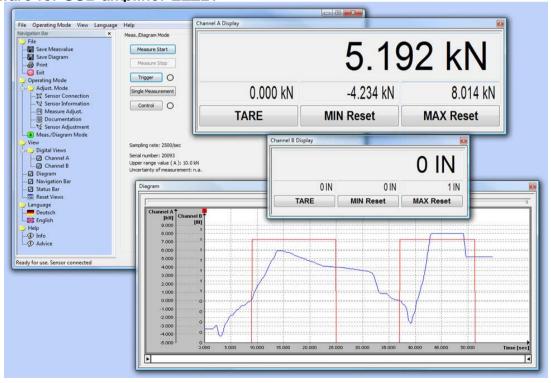


Fig: PC software VASUSB for EZE21

### **Features Software**

- Easy configuration and evaluation
- Graphical display of max. 2 measuring channels
- Amplifier set and controlled
- Automatic scaling of the Y-axis
- Automatic memory function of the measured values as CSV and BMP file

Conversion in physical variables	included	
Simultaneous measurement	Up to 2 input channels	
Graphical presentation of the measured variables	included	
Automatic or manual storage in a CSV- and BMP-file	included	
Print-out of the diagram with date and definable headline	included	
Scaling function of the input variable to any display value with unit	included	
Resettable minimum value memory for any measured variable	included	
Resettable maximum value memory for any measured variable	included	
Variable average determination	included	
Tare for each measured value	included	

# **Desciption**

Configuration and evaluation software for analysis and graphical presentation on a PC. The software allows direct read-in of measured data into a text file in CSV-Format through the USB-Port of a PC. This enables further analyses with a commercially available spreadsheet program at any time. The configuration and readout of configuration data and the testing of the communication protocol with the EZE21 can be done by using the evaluation software.

#### Technical data

Interface	USB
System requirements	Windows '00/ '03/ '08/ XP/ Vista 32/64/ 7 32/64®3
	Single-Core up 2.0 GHz (without Diagram)
	Dual-Core up 1.8 GHz (with Diagram)

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