Digital Measuring Amplifier - DMX

Digital 1- or 2-channel amplifier with 10 V and (0) 4…20 mA outputs

24bit Σ-Δ-AD-Transducer for highest precision

Bluetooth connection or button for quick calibration of the measuring point

OLED display or app display for good readability in the cabinet and on site

Quick and easy setup (app-supported)

Very short cycle time (0.5 ms) for time-critical applications

DIGITAL MEASURING

The **DMX** amplifier is used where sensors with full-range resistance measuring bridges (e.g., strain gauge force transducers) need to be connected with fast analog signals. The main applications are track strain measurement and linear force measurement technology.

For **quick and easy start-up**, the DMX is operated either directly via the buttons on the device or via a user-friendly app on a mobile device.

During regular operation, the **HAEHNE Viewer** app offers several options for process analysis. For example, force values can be recorded on two channels and exported (CSV).

A **cockpit function** offers additional display options.

ORDER EXAMPLE

DMX-2

- 2-channel-version
- Type

OPTIONS

Variant: 1-channel amplifier with 10V and (0) 4…20mA output

SCOPE OF DELIVERY

Amplifier unit in DIN rail mount enclosure

DMX1: 1-channel amplifier with 10V and (0) 4…20mA output

DMX2: 2-channel amplifier with 2x 10V and 2x (0) 4…20mA output

App available for Android und iOS

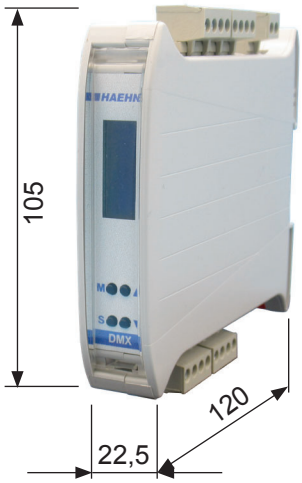
haehne.de

Pin assignment

Supply voltage		Sensor A				Sensor B			
1	2	3	4	5	6	7	8	9	10
+24 V	0V	U, I_A	GND	U_A	GND	U, I_B	GND	U_B	GND

Sensor A				Sensor B			
11	12	13	14	15	16	17	18
V4+	V4-	V1+	V1-	V4+	V4-	V1+	V1-

Technical Data		
Strain gauge excitation supply		
	Voltage (V_4):	5 V
	Current max.:	60 mA
Zero adjustment compensation voltage (relative to the voltage inputs)		
	-25…0…+25 mV	
Total amplification		
	Adjustment range	500-8000 V/V
	Factory adjustment at 1,5 mV/V at 1 mV/V at 0,75 mV/V	 1333,33 V/V 2000 V/V 2666,66 V/V
Signal output		
	Voltage (U_A, U_B)	-10…0…+10 V 0 ... 10 V
	min. load resistance	5 kΩ
	Signal rising time (10…90 %)	0,5 ms ... 16s
	Current (I_A, I_B)	adjustable 4...20 mA 0...20 mA
	max. load resistance	600 Ω
Supply voltage*		
	Voltage:	24 V DC, 9-36 V
	Current consumption (Standard)	approx.. 90 mA
Enclosure protection		IP20
Temperature range		0…60° C
Terminal cross-section		AWG 22-12
* The auxiliary power must be grounded.		



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