

PMX400HZX

Weidmüller Interface GmbH & Co. KG

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Frequency meter and totaliser with additional functions and external power supply for installation in control panels.

The PMX400 series offers high-quality 4-character LED displays in 1/8 DIN format with additional functions. A variety of frequency signals can be processed with the displays. On the output side, optional analogue signals are available, as well as either two or four relay contacts for limit-value monitoring.

The programmable meter components from the PTX800 series with 8-bit digital display: capable of processing input-side TTL signals or optional pulses from NAMUR and NPN/PNP sensors.

Comprehensive linearisation and interference-suppression functions are available for processing measurement signals. An mA/V analogue signal and two CO contacts for limit-value monitoring are optionally available on the output side.

Both counters feature 24-VDC voltage for supplying external two-wire sensors.

General ordering data

Type	PMX400HZX
Order No.	7940015595
Version	Signal converter/insulator, Configurable for 4 ranges , 0...20 mA or 0...11 V
GTIN (EAN)	4032248565702
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	137 mm	Length (inches)	5.394 inch
Width	96.6 mm	Width (inches)	3.803 inch
Height	48.8 mm	Height (inches)	1.921 inch
Weight	383 g	Net weight	383 g

Temperatures

Humidity	0...90 % (no condensation)	Operating temperature	0 °C...60 °C
Storage temperature	-25 °C...70 °C		

Alarm

Number of channels, alarm	4	Rated switching current	200 mA
Rated switching voltage	50 V DC	Switching current	Channel 3/4: 3 A @ 240 V AC / 24 V DC (resistive load)
Type	Channel 1/2: transistor output channel 3/4: relay contact (CO)		

Display

Display range	-9999...9999	Display value	Percentage or real value display
Scaling	Variable	Type	4-digit, red LED, 14.2 mm Voltage input/ current input

Functions

Step response time	< 220 ms (10...90 %)
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General data

Cut-off frequency (-3 dB)	5 Hz	Data backup	≥ 100 years (without power supply)
Humidity	0...90 % (no condensation)	Input/Output	without analogue/alarm output
Linearity	< 0.05 %	Long-term drift	0.1 % / 10.000 h
Power consumption	6 W @ 24 V DC	Step response time	< 220 ms (10...90 %)
Supply voltage	24 V DC ± 10 %	Switching current	Channel 3/4: 3 A @ 240 V AC / 24 V DC (resistive load)
Transmit function	direct or inverted	Type of connection	Screw connection
Weight	383 g		

Input

Attenuation factor	0...99, programmable digital filter	Input signal	Configurable for 4 ranges
Input voltage	50 mV to 250 V AC / 3 to 250 V DC	Sensor supply	12 V DC to 25 mA
Type	Adjustable frequencies		

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Insulation coordination

EMC standards	DIN EN 61326	Impulse withstand voltage	4 kV (1.2/50 µs)
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Output

Last resistor, max.	≤ 850 Ω (current); ≥ 1MΩ (voltage)	Output signal	0...20 mA or 0...11 V
Scaling	Variable	Transmit function	direct or inverted
Type	RO/AO version with 1 analogue output and 2 alarm outputs		

Connection data

Type of connection	Screw connection	Clamping range, rated connection	1.5 mm ²
Clamping range, rated connection, min.	0.5 mm ²	Clamping range, rated connection, max.	2.5 mm ²

Classifications

ETIM 6.0	EC000677	UNSPSC	30-21-18-01
eClass 6.2	27-21-09-90	eClass 7.1	27-21-09-90
eClass 8.1	27-21-09-90	eClass 9.0	27-21-09-90
eClass 9.1	27-21-03-01		

Approvals

Approvals



ROHS Conform

Downloads

Brochure/Catalogue	CAT 4.1 ELECTR 16/17 EN
User Documentation	Manual

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Drawings

Electric symbol

