

PTX800D RO/AO**Weidmüller Interface GmbH & Co. KG**

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Germany

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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	PTX800D RO/AO
Order No.	7940012323
Version	Signal converter/insulator, 0...10 Hz
GTIN (EAN)	4032248565849
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	438 g	Net weight	437 g

Temperatures

Humidity	10...90 %, no condensation	Operating temperature, max.	60 °C
Operating temperature, min.	0 °C	Storage temperature, max.	70 °C
Storage temperature, min.	-25 °C	Operating temperature	0 °C...60 °C
Storage temperature	-25 °C...70 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Alarm

Switching current	3 A @ 240 V AC, 5 A @ 24 V DC / 110 V AC (resistive load)	Type	2 relay contacts (CO)
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Analogue output

Load resistance current (analogue output)	$\leq 900 \Omega$	Load resistance voltage (analogue output)	$\geq 1 \text{ k}\Omega$
Residual ripple (analogue output)	$\leq 20 \text{ mV}_{\text{ss}}$	Resolution (analogue output)	1.6 μA or 0.8 mV / bit
Type (analogue output)	Current of voltage output, configured with jumper		

Display

Decimal point	Independently adjustable for partial or total display	Display value	Percentage or real value display
Partial display	Display range of 0...50.000 (5-digit)	Time range (partial display)	per sec, min, hour (and day for PTX800A)
Total display	Display from 0...99,999,999 (8 digits)	Total display, display range	Configurable (≤ 10 pulse per signal jump)
Type	8-digit, red LED, 7.2 mm 14 adjustable brightness levels		

General data

Data backup	≥ 100 years	Humidity	10...90 %, no condensation
Input/Output	With analogue/alarm output	Linearity	$< 0.05 \%$
Long-term drift	0.1 % / 10.000 h	Power consumption	6 W @ 24 V DC
Switching current	3 A @ 240 V AC, 5 A @ 24 V DC / 110 V AC (resistive load)	Type of connection	Screw connection
Voltage supply	24 V DC $\pm 10 \%$	Weight	438 g

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Input

Input signal	0...10 Hz	Input voltage	50 mV...250 V adjustable
Sensor supply	12 V DC to 25 mA	Type	Digital pulse (NAMUR, PNP/NPN, TTL logic, optocoupler, voltage pulse, no-voltage contacts)

Insulation coordination

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

Residual ripple (analogue output)	≤ 20 mV _{ss}	Type	RO/AO version with 1 analogue output and 2 alarm outputs
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Pulse output

Cut-off time (pulse output)	min. 32 ms	Display value (pulse output)	1 pulse per signal jump on the total display
Pulse duration	32 ms	Pulse rate, max. (pulse output)	16 / s
Type (pulse output)	Transistor output		

Reset input

Function (reset input)	Complete reset (display / alarm)	Min. pulse duration (reset input)	100 ms
Type (reset input)	NO contact		

Connection data

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

Classifications

ETIM 6.0	EC000677	ETIM 7.0	EC000677
eClass 9.0	27-14-31-10	eClass 9.1	27-21-03-01
eClass 10.0	27-14-31-10	UNSPSC	30-21-18-01

Approvals

Approvals



ROHS

Conform

Downloads

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

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Drawings

Electric symbol

