

PTX800A 4-20MA/RO/AO

Weidmüller Interface GmbH & Co. KG

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Germany

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Universal interfacing device, 4-character current/voltage displays and meter/totaliser with additional functions and external power supply.

The AMS400A interfacing devices are used between the control unit and field devices.

It carries out the manual simulation of automatically controlled loops. Typical applications are manual start-up of sensitive processes before handover to automatic control and manual override in case of controller failure or malfunction.

The current/voltage displays of the PMX420 series are available as a pure PMX420 display unit and optionally with analogue outputs or four alarm outputs

The basic model is suitable for displaying all standardised current or voltage signals.

The programmable meter components from the PTX800A are for measuring flow quantity: they process standardised analogue current and voltage signals. Linearisation and interference-suppression functions are available for processing measurement signals. In addition, the meters have a 24 VDC power supply for external loop-powered sensors.

General ordering data

Type	PTX800A 4-20MA/RO/AO
Order No.	7940014374
Version	Signal converter/insulator, -24...+24 mA / -11...+11 V
GTIN (EAN)	4032248565825
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	461 g	Net weight	461 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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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	0.001; 0.01; 0.1; 1; 10; 100; 1000
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	461 g

Input

Input resistance	22 Ω (current input); 1 M Ω (voltage input)	Input signal	-24...+24 mA / -11...+11 V
Resolution	0.6 μA / 0.3 mV	Sensor supply	24 V DC (up to 25 mA)
Type	Conversion of linear/quadratic input signals into analogue signals		

Creation date August 16, 2020 3:36:52 AM CEST

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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

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

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
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Downloads

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

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Drawings

Electric symbol

