

OMNIMATE Signal - series PM PMX420

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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	PMX420
Order No.	7940010525
Version	OMNIMATE Signal - series PM, Display, -22...+22 mA (preset to 4...20 mA)
GTIN (EAN)	4032248565788
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	353 g	Net weight	379 g

Temperatures

Humidity	0...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
Ambient temperature	0 °C...+60 °C	Storage temperature	-25 °C...70 °C

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

Alarm

Switching current 5 A @ 240 V AC,
10 A @ 24 V DC

Analogue output

Residual ripple (analogue output) < 20 mV_{ss}

Display

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

General data

Cut-off frequency (-3 dB)	5 Hz	Data backup	> 10 years without power supply
Humidity	0...90 % (no condensation)	Input/Output	Voltage/current input
Linearity	< 0.05 %	Long-term drift	0.1 % / 10.000 h
Power consumption	8.5 W @ 24 V DC	Switching current	5 A @ 240 V AC, 10 A @ 24 V DC
Transmit function	direct or inverted	Type of connection	Screw connection
Voltage supply	18...50 V DC, other voltages on request	Weight	353 g

Input

Attenuation factor	0...99, programmable digital filter	Input current	-22...+22 mA (preset to 4...20 mA)
Input resistance	25 Ω (current input) or 1.5 MΩ (voltage input)	Input voltage	-11...+11 V
Resolution	4 μA / 2 mV	Sensor current	4...20 mA
Type	Adjustable input for current or voltage		

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Insulation coordination

EMC standards	DIN EN 61326	Impulse withstand voltage	4 kV (1.2/50 µs)
Standards	DIN EN 50178		

Output

Last resistor, max.	850 Ω @ 20 mA (current output) / < 500 Ω (voltage output)	Residual ripple (analogue output)	< 20 mV _{ss}
Scaling	Variable	Transmit function	direct or inverted
Type	not available		

Output current mode

Residual ripple (current mode output)	< 1 µA
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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