

## OMNIMATE Signal - series PM P275

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The Portacal 1000 and P275 calibration devices can be used to calibrate and set the analogue signal converters. They provide clean smoothed, analogue standard signals and make use of a load indicator for quick loop diagnostics. As a hand-held signal source, they are optionally available as conventionally controlled (Portacal 275) and microprocessor-controlled (Portacal 1000) versions.

A variety of operating modes – such as voltage source, mV source, current source, current sink and adjustable continuous level and ramping functions (Portacal 1000) – makes them suitable for use during the installation and maintenance of processing plants.

### General ordering data

Type	P275
Order No.	<a href="#">7940010202</a>
Version	OMNIMATE Signal - series PM, Calibration device
GTIN (EAN)	4032248565801
Qty.	1 pc(s).

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P275**

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**Technical data****Dimensions and weights**

Length	31 mm	Length (inches)	1.22 inch
Width	62 mm	Width (inches)	2.441 inch
Height	112 mm	Height (inches)	4.409 inch
Weight	348 g	Net weight	348 g

**Temperatures**

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

**Analogue output**

Residual ripple (analogue output) < 1 µA

**Control**

Output, fixed	0 or 100 % with toggle switch	Output, variable	0...100 % with precision potentiometer
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**Functions**

Accuracy	0.25 % of signal range	Temperature coefficient	typ. 40 ppm @ °C
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**General data**

Accuracy	0.25 % of signal range	Temperature coefficient	typ. 40 ppm @ °C
Type of connection	Socket connector	Voltage supply	Batteries, 2 x 9-V blocks 6...22 mA (current source) 2 mA (current sink)
Weight	348 g		

**Insulation coordination**

EMC standards	DIN EN 61326	Standards	DIN EN 50178
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**Output**

Residual ripple (analogue output) < 1 µA

**Output current mode**

Accuracy (current mode output)	< 0.1% (0% and 100%)	Load resistance, max. (current mode output)	700 Ω (current source) ( $V_{out} - 4$ ) / 0.02 Ω (current sink)
Output current (current mode output)	0 (4)...20 mA	Output voltage, max. @ current sink (output of current mode)	4...45 V DC
Residual ripple (current mode output)	< 1 µA	Resolution (current mode output)	0.01 mA

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**Technical data****Output voltage mode**

Accuracy (voltage mode output)	< 0.2% (0% and 100%)	Output resistance (voltage mode output)	250 Ω @ V / 10 Ω @ mV
Output voltage, note	0...5 V / 1...5 V; 0...200 mV / 40...200 mV	Resolution (voltage mode output)	0.01 V

**Settings**

Accuracy	0.25 % of signal range	Output, fixed	0 or 100 % with toggle switch
Output, variable	0...100 % with precision potentiometer	Range of adjustment	0 (4)...20 mA / 0...200 mA (current source).0...5 V (voltage source) or as current sink selectable with toggle switch

**Connection data**

Type of connection	Socket connector	Clamping range, rated connection	1.5 mm <sup>2</sup>
Clamping range, min.	0.5 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>

**Classifications**

ETIM 6.0	EC002744	ETIM 7.0	EC002744
eClass 9.0	21-17-08-90	eClass 9.1	27-21-92-90
eClass 10.0	21-17-08-90	UNSPSC	30-21-18-01

**Approvals**

Approvals



ROHS Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 4.1 ELECTR 16/17 EN</a>
User Documentation	<a href="#">Manual</a>