

P1000

Weidmüller Interface GmbH & Co. KG

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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	P1000
Order No.	7940010194
Version	Calibration device
GTIN (EAN)	4032248565689
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Length	44 mm	Width	100 mm
Height	180 mm	Weight	836 g
Net weight	836 g		

Temperatures

Operating temperature	0 °C...+60 °C	Storage temperature	-25 °C...+70 °C
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Auto Step / Ramp mode

Number of recorded values (Auto Step)	2...9	Ramp (Auto Step)	Output via programmable ramp function
Step (Auto Step)	Output of each value within a certain time frame	Time frame (Auto Step)	10...4200 s

Display

Decimal point	1 / 0.1, 0.01 mA or V	Display value	Percentage or real value display
Type	4-character, LCD display, 12 mm		

Functions

Temperature coefficient	< 0.01% / °C @ 100 %
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General data

Supply voltage	4 AA-sized batteries	Temperature coefficient	< 0.01% / °C @ 100 %
Type of connection	Socket	Weight	836 g

Input

Supply voltage (loop-powered mode)	16 V ± 10%
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Input current mode

Accuracy (current mode input)	± 1 µA or ± 1 digital step	Input current (current mode input)	0...26 mA
Input resistance (current mode input)	47 Ω		

Input voltage mode

Accuracy (voltage mode input)	± 5 µA or ± 1 digital step	Input resistance (voltage mode input)	200 kΩ
Input voltage (voltage mode input)	0...13 V		

Insulation coordination

EMC standards	DIN EN 61326	Standards	DIN EN 50178
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Technical data**Keyboard**

Calibration (keyboard)	Adjustable constant values: 0. 2, 4, 8, 10. 16, 18, 20 mA 0. 1, 2, 4, 5, 6, 8, 9, 10 V	Internal memory (keyboard)	9 variable values
Type (keyboard)	16 buttons with acoustic signal		

Loop powered mode

Accuracy (loop-powered mode)	$\pm 5 \mu\text{A}$ or ± 1 digital step	Input current (loop-powered mode)	0...26 mA
Supply voltage (loop-powered mode)	16 V \pm 10%	Type (loop-powered mode)	Mode for loop-powered signal converter

Output current mode

Accuracy (current mode output)	$\pm 5 \mu\text{A}$	Input voltage or current sink, max. (current mode output)	9...45 V DC
Internal memory (current mode output)	9 user-defined currents	Load resistance, max. (current mode output)	600 Ω 20 mA (current source) 100 Ω (current sink)
Output current (current mode output)	0...26 mA	Residual ripple (current mode output)	< 1 μA
Resolution (current mode output)	0.01 mA		

Output voltage mode

Accuracy (voltage mode output)	± 5 mV	Internal memory (voltage mode output)	9 user-defined voltages
Load current (voltage mode output)	0...10 mA	Output voltage, note	0...13 V
Residual ripple (voltage mode output)	< 1 mV	Resolution (voltage mode output)	0.01 V

Classifications

ETIM 3.0	EC001774	UNSPSC	30-21-18-01
eClass 6.2	27-21-09-90	eClass 7.1	27-21-09-90

Approvals

Approvals



ROHS

Conform

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