Process controllers

LED process controllers	2 analogue signal inputs + 2 limit values or analogue output	573

The process controller with 2 analogue inputs can be used in both single channel mode as well as in dual channel. In dual channel mode, all arithmetic operations are available for displaying the sum total, difference, ratio or the product. Inputs and outputs can be scaled separately.

Can be used as a simple process signal converter, process controller (ON/OFF controller) or for complex measuring tasks, where the relationship between two values, one to the other, must be monitored, calculated or further processed in a higher-level controller.

AC/DC 17...260 V	DIN 96 x 48	IP65	ProG		mA, V	123... 6 LED	Tara	mA, V	2
Power supply	DIN front bezel	High protection level	Menu-driven programming	Operation with gloves	2 inputs	LED display	Tare function	Output	Transistor output

Innovative

- 2 separate freely scalable analogue inputs +/-10 V, 0 ...10 V and 0/4 ... 20 mA, resolution 14 bit
- Tare function – the unit can be set to 0 for any input voltage
- Programmable linearization: with up to 16 control points, input via key-pad or via the teach-in function
- Averaging measurement over 2 to 16 measuring cycles, for use with serious fluctuations of the input signals
- Easy to programme - the desired display value is simply keyed-in for a specific input signal
- Fast 25 ms sampling rate per channel alternating

Compact and multifunctional

- Up to 3 display values in one device, display A, display B + display calculated based on A and B
- AC and DC power supply in one device
- Simple menu-driven programming with just 2 keys, as well as tare or teach-in key
- Can be used as a simple process signal converter, process controller (ON/OFF controller) or for complex measuring tasks where the relationship between two values, one to the other, must be monitored, calculated or further processed in a higher-level controller
- Mathematical operation of the measured values of inputs A and B. The result can also if required be multiplied, divided or added to an offset value, in order to obtain the desired display value.
- Analogue output 0/4 ... 20 mA, +/-10 V or 0 ... 10 V
- 2 fast PNP switching outputs, 50 ms, with switching hysteresis, step or tracking preset
- Programmable display refresh time

Order specifications

Process controller with 2 outputs	6.573.011.E00 [1]	*Delivery specifications*
Process controller with analogue output	6.573.012.E90 [1]	- Process controller 573
		- Gasket
		- Mounting kit
		- Manual German/English

Accessories

Accessories	Dimensions in mm [inch]		Order-No.
Mounting frame with cut-out 92 x 45 [3.62 x 1.77]	For snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 96 x 48 [3.74 x 1.89]	grey	**G300005**

Suitable gaskets as well as further accessories can be found in the accessories section or in the accessories area of our website at: www.kuebler.com/accessories.

[1] Stock types

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Technical data

General technical data

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Display	LED display, 15 mm [0.59"] high 6 decades
Operating temperature	0°C ... +45°C [+32°F ... +113°F] (non-condensing)
Storage temperature	-25°C ... +70°C [-13°F ... +158°F]

Electrical characteristics

Power supply		17 ... 30 V DC (Nominal voltage: 24 V DC) 115/230 V AC ± 12.5 %
Current consumption	18 V	110 mA
	24 V	90 mA
	30 V	80 mA
Power consumption AC		7.5 VA
Auxiliary power supply output for sensors (for AC and DC supply)		24 V DC ± 15%, 100 mA
EMC	Immunity to interference	EN 55011 class B
	Emitted interference	EN 61000-6-2
Device safety	Designed to	EN 61010 part 1
	Protection class	2
	Application area	Pollution level 2

Mechanical characteristics

|		
Housing		Noryl UL94–V-0
Weight		approx. 200 g [7.05 oz]
Protection		IP65 (front side) IP20 (rear side)
Connection terminals	signal	max. 1.5 mm^2 [AWG 15]
	AC supply	max. 2.5 mm^2 [AWG 13]

Measuring signal inputs

2 analogue inputs		0 ... 20 mA, 4 ... 20 mA -10 ... +10 V, 0 ... 10 V
Input resistance	current	Ri = 100 Ohm
	voltage	Ri = 30 kOhm
Measuring time per channel		25 ms (alternating)
Resolution		14 bit (13 bit + sign)
Accuracy		±0.1% ± 1 digit

Outputs

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Switching outputs		2 x PNP, max. 35 V, max. 150 mA
	response time	max. 50 ms
Analogue output		0 ... 20 mA, 4 ... 20 mA (max. 300 Ohm) -10 ... +10 V, 0 ... 10 V (max. 2 mA)
	response time	max. 57 ms (analogue output 7 ms after detection of the measurement value)
Resolution		14 bit (13 bit + sign)

Application examples
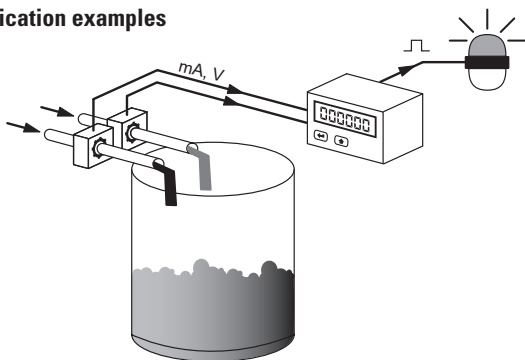
Monitoring of mixing ratios and display of flow rate
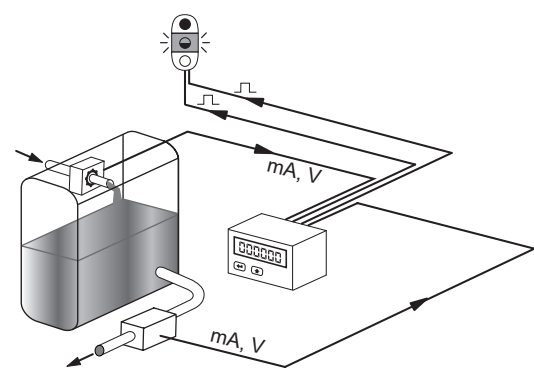
Level monitoring and adjustment, display of inflow and outflow
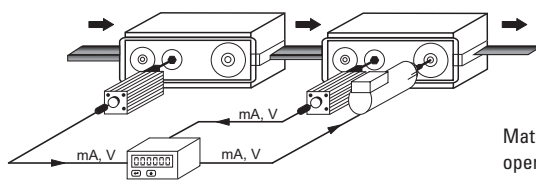
Material stretching, as well as monitoring of synchronous operation, with display of individual speeds

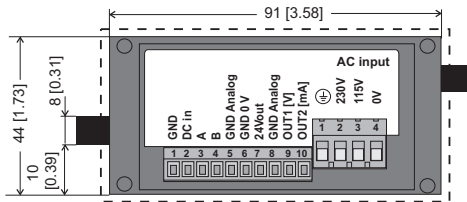Process devices

Process controllers

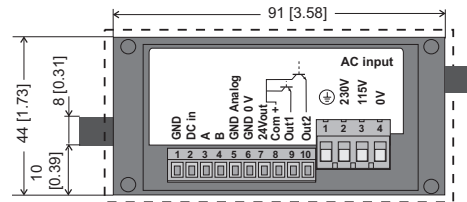## LED process controllers · 2 analogue signal inputs + 2 limit values or analogue output · 573
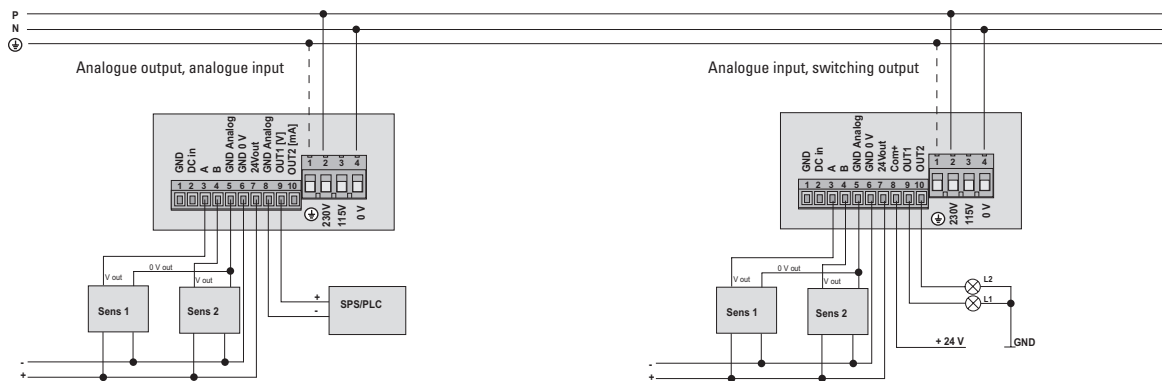
Terminal assignment

with analogue output

with 2 outputs

Connection example

Analogue output, analogue input

Analogue input, switching output

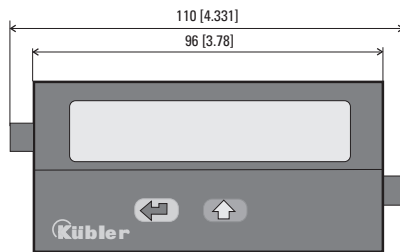### Dimensions

Dimensions in mm [inch]

Panel cut-out 91 x 44 [3.58 x 1.73]