Setpoint adjuster





Innovative

- Function of a digital time controller with analog output.
- Manual functions with direct input or stepped incremental output of the setpoint.
- 4-digit, 8 mm high top-quality LED display.
- Physical variables output / 0 ... 12 V or 0 ... 24 mA analog signals.
- Units of display can be freely programmed and displayed no conversion of the specified output value required.
- Ideal for simulation runs without the need for expensive, timeconsuming running-in of processes.

Powerful

- Simpler to run processes than with a PLC or process controller.
- Everything can be programmed easily by means of 2 keys and the text menu.
- Digital setting no additional DIP switches or potentiometers.
- Display allows simple monitoring of the specified setpoint output.
- · User-friendly display form as direct digital value.
- 3 separate functions integrated as standard in the Codix 533.
- High accuracy of < 0.2% of the final value.

Order no.

Setpoint adjuster

6.533.012.300 ¹⁾

Delivery specification

- · Setpoint adjuster
- Mounting clip
- · Gasket
- · Front bezel for screw mounting (T008181) 56 x 40 mm [2.20 x 1.57"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- Front bezel for clip mounting (T008180) 53 x 28 mm [2.09 x 1.10"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- \cdot $\,$ 1 set of self-adhesive symbols $\,$
- · Instruction manual, multilingual

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Setpoint adjuster

LED setpoint adjuster	point adjuster Standard signal output for mA or V, also time-controlled (DC) C	
Accessories	Dimensions in mm [inch]	Order no.
Adapter front bezel, 72 x 36 [2.83 x 1	I.42] for cut-out 68 x 33 [2.68 x 1.30] to cut-out 45 x 22.2 [1.77 x 0.87], for counters 48 x 24 [1.89 x 0.94], as set black and silver anodized	162704 Set
Adapter front bezel, 48 x 48 [1.89 x 1	I.89] for cut-out 45 x 45 [1.77 x 1.77] to cut-out 45 x 22.2 [1.77 x 0.87], with clip mounting for counters 48 x 24 [1.89 x 0.94] black	T008883
Adapter front bezel, 60 x 50 [2.36 x 1	I.97] for cut-out 54 x 29 [2.13 x 1.14] to cut-out 45 x 22.2 [1.77 x 0.87], with screw mounting and gasket for counters 48 x 24 [1.89 x 0.94] black	N003001
Transparent cover, lockable, IP65	for cut-out 54 x 29 [2.13 x 1.14], for screw mounting to front bezel F1B or adapter front bezel N003001, for counters with cut-out 50 x 25 [1.97 x 0.98] or 45 x 22.2 [1.77 x 0.87]	N003002
Sealing cover type K1, IP65	suitable for front bezel 60 x 50 [2.36 x 1.97], for screw mounting of electromech. counters and via adapter front bezel N003001 for counters 48 x 24 [1.89 x 0.94]	G008301
Mounting frame with cut-out 50 x 25 [2.36 x 1.97] via separate adapter also for 45 x 22.2 [1.77	for snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 53 x 28 [2.09 x 1.10] r x 0.87] and via separate adapter (T008180) for counters 48 x 24 [1.89 x 0.94] chromated	G300004

Suitable gaskets, other accessories and installation examples for optional accessories can be found in chapter accessories or in the accessories section under: www.kuebler.com/accessories.

Technical data

General technical data			
Display	4 digits, red 7 segment LED display; 8 mm [0.32"] high		
Data backup	EEPROM		
Operating temperature	-20°C +65°C [-4°F +149°F] (non-condensing)		
Storage temperature	-25°C +85°C [-13°F +185°F]		

Mechanical characteristics		
Housing	front panel mount 48 x 24 mm [1.89 x 0.94"] acc. to DIN 43700; RAL 7021, dark grey	
Protection	IP65 (front side)	
Weight	approx. 50 g [1.76 oz]	
Connections	screw terminal, pitch 5.08 mm [2"], 7 pin	

Electrical characteristics			
Power supply	1030 VDC, galvanically isolated with integrated reverse polarity protection		
Power consumption	max. 1 W		
Test voltage	500 V, 50 Hz, 1 min.		
EMC standard	EN 55011 class B EN 61000-6-2, EN 61000-6-3 EN 61326-1		
UL approval	file E128604		

Standard signal outputs / control input			
Current output		0 24 mA,	
		increment 10 μA	
	load	20 mA: ≤ 500 0hm	
		> 20 mA: ≤ 400 0hm	
Voltage output		0 12 V,	
		increment 10 mV	
	load	≥ 2 k0hm	
Control input	ligh	4 30 V DC	
Hold (HIGH active)	LOW	0 2 V DC	
Accuracy		< 0.2% of the full scale value	
		±0.02 %/K _{Ambient}	

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LED setpoint adjuster

Standard signal output for mA or V, also time-controlled (DC)

Codix 533

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3 operating modes programmable

Manual direct input (Setp)

- Fast adjustment and manual approach to the desired setpoint value.
- Setpoint value can be specified directly during operation via the keys in V or mA.
- Output of the value 3 seconds after the last key actuation.

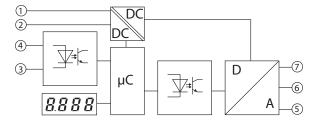
Manual ramping function (Man)

- Possibility of a stepped, incremental approach to the desired setpoint value using the keys on the front.
- Input of the minimum and maximum setpoint values and the increment by key actuation in the programming level.
- During operation the device starts with the minimum setpoint value the right key is used to increase the value by the amount of the increment; the left key decreases the value.
- The programmed maximum value cannot be exceeded.

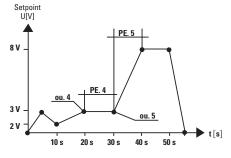
Automatic ramping function (Auto)

- Function of a digital time based controller with analog output. Setpoint
 values can be programmed and carried out for process sequences, either
 cyclic or time dependent: irrigating, dosing, lubricating, filling, venting, mixing.
- With max. 20 current or voltage values.
- Cyclically limited (time) or unlimited.

Block diagram



Example of an automatic ramping function



Example with 8 points		
ou. 1	0 V	
PE 1	5 s	
ou.2	3 V	
PE 2	5 s	
ou. 3	2 V	
PE 3	10 s	
ou. 4	3 V	
PE 4	10 s	
ou. 5	3 V	
PE 5	10 s	
ou. 6	8 V	
PE 6	10 s	
ou. 7	8 V	
PE 7 ou. 8 PE 8	0 V 10 s 0 V 5 s	

Inputs

1	2	3	4
10 30 V DC	GND_1	GND_2	Hold

Outputs

5	6	7
0 24 mA (lout)	GND_3	0 12 V DC Uout)

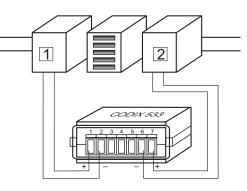
Terminal assignment

Inputs

1	2	3	4
10 30 V DC	GND_1	GND_2	Hold

Outputs

5	6	7
0 24 mA	Analog GND_3	0 12 V DC

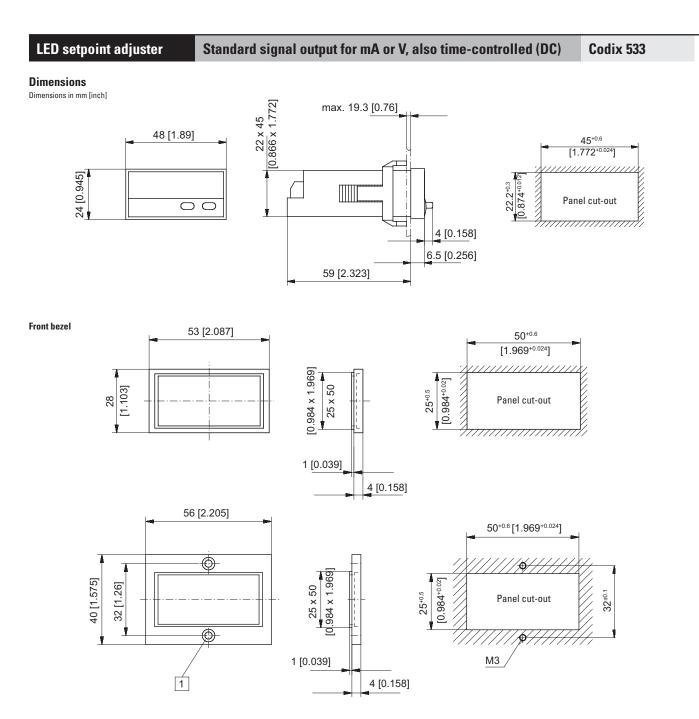


1 Power supply

2 Analog input

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1 Countersinking Af3, DIN 74

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