

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

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



LED setpoint adj	uster Stand	lard signal	output for mA or V, also time-contr	olled (DC)	Codix	533
Accessories / Mounting examples						
Sealing cover G008300 grey G008301 black alternatively only in conjuction with adapter front bezel 60 x 50 mm N003001			Gasket (or N511005 in delivery) Koto Adapter front bezel N003001 black	CU		Mounting clip (included in delivery)
Transparent cover N003002	Gask N51101	et (optional) 9				
		Type / size	Description		Order no.	suitable gasket
Adapter front bezel		53 x 28 mm [2.09 x 1.10"]	for cut-out 50 x 25 mm [1.97 x 0.98"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	grey black anthracite	T008164 T008165 T008180	N511015
		56 x 40 mm [2.20 x 1.57"]	for cut-out 50 x 25 mm [1.97 x 0.98"] to cut-out 45 x 22.2 mm [1.77 x 0.94"] screw mounting	black anthracite	T008161 T008181	N511045
		72 x 36 mm [2.83 x 1.42"]	for cut-out 68 x 33 mm [2.68 x 1.30"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black and silver anodised as set	162704Set	-
		60 x 50 mm [2.36 x 1.97"]	for cut-out 54 x 29 mm [2.13 x 1.14"] to cut-out 45 x 22.2 mm [1.77 x 0.94"] screw mounting	black	N003001	N511005
		48 x 48 mm [1.89 x 1.89"]	for cut-out 45 x 45 mm [1.77 x 1.77"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black	T008883	-
Sealing cover IP65		K1	only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / grey transparent / black	G008300 G008301	-
Transparent cover IP65		1 Dv (mounted on bezel)	cover lockable, for cut-out 54 x 29 mm [2.13 x 1.14"], only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / black	N003002	N511019
Gasket counter			48 x 24 mm (for installation in adapter front bezel) 49 x 25 mm		N511029 N511034	
Mounting frame		cut-out 50 x 25 mm [1.97 x 0.98"]	via adapter T008180 for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	chromated	G300004	-
Enclosure blind		48 x 24 mm [1.89 x 0.94"]	for cut-out 45 x 22.2 mm [1.77 x 0.94"] and cut-out 50 x 25 mm [1.97 x 0.98"]	anthracite	G003836	-
			1	1	incl. in delivery	

LED setpoint adjuster

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

Codix 533

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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]
Electrical characteristics	

Supply voltage	1030 V DC, galvanically isolated with integrated reverse polarity protection
Power consumption	max. 1 W
Test voltage	500 V, 50 Hz, 1 min.

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

Approvals	
UL compliant in accordance with	File no. E128604
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU

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

3 operating modes programmable

Mechanical characteristics

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.

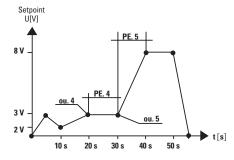
Manual ramping function (Man)

- 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.

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	10 s	
ou. 8	0 V	
PE 8	5 s	

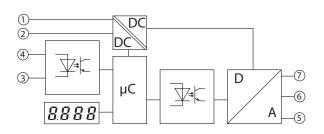
Kübler

Setpoint adjuster

LED setpoint adjuster

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

Block diagram



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)		

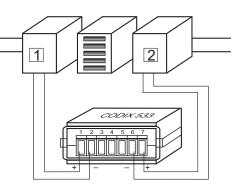
Terminal assignment

Inputs

1	2	3	4
10 30 V DC	GND_1	GND_2	Hold

Outputs

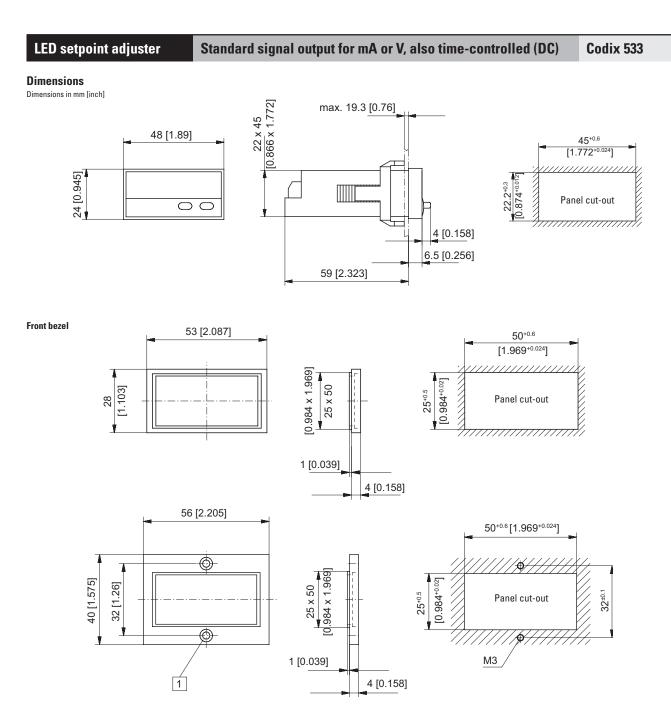
5	6	7
0 24 mA	Analog GND_3	0 12 V DC



Supply voltage Analog input

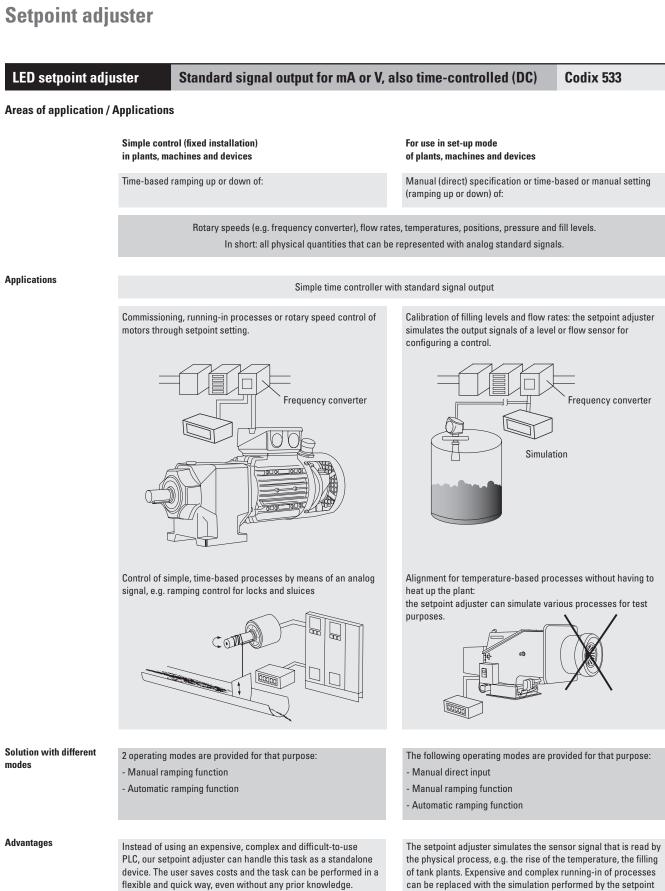
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1 Countersinking Af3, DIN 74





The output signal can be displayed directly or scaled in any desired unit. The user always sees the exact progress.

An easy-to-use device with three selectable modes is available.

adjuster.