



## 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 <sup>1)</sup>

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"]
- 1 set of self-adhesive symbols
- · Instruction manual, multilingual



LED setpoint adjuster	Standard signal output for mA or V, also time-controlled (DC)	odix 533
Accessories	Dimensions in mm [inch]	Order no.
Adapter front bezel, 72 x 36 [2.83 x 1	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	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	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] 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]

Electrical characteristics		
Power supply	10 30 V DC, 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	
UL approval	file E128604	

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

Standard signal outputs / control input		
Current output		0 24 mA,
		increment 10 μA
1	oad	20 mA: ≤ 500 0hm
		> 20 mA: ≤ 400 0hm
Voltage output		0 12 V,
		increment 10 mV
I	oad	≥ 2 k0hm
Control input H	IGH	4 30 V DC
Hold (HIGH active)	.0W	0 2 V DC
Accuracy		< 0.2% of the full scale value
		±0.02 %/K <sub>Ambient</sub>

## LED setpoint adjuster

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

Codix 533

#### 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**



1	2	3	4
10 30 V DC	GND_1	GND_2	Hold

Outputs

Innuta

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



Power supply
 Analog input

286	www.kuebler.com
200	www.kuebiei.com



Example of an automatic ramping function









1 Countersinking Af3, DIN 74

# Kübler

