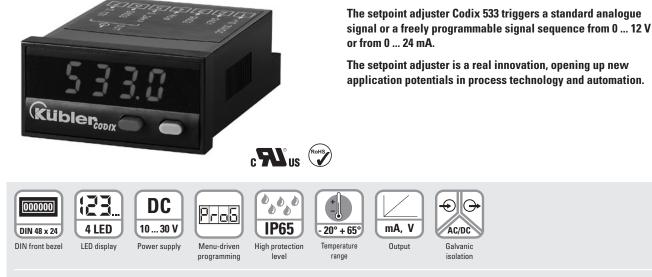


LED setpoint adjuster

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

Codix 533



Innovative

- Function of a digital time controller with analogue 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 analogue 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

076	er spe	citio	atio	ns

Setpoint adjuster	6.533.012.300 ¹⁾	Delivery specification- Setpoint adjuster- Mounting clip / Gasket- Instruction manual, multilingual- 1 set of self-adhesive symbols	
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 anodised	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]	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]	N003001
Transparent cover, locka	ıble, 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, IF	265	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 1.9 via separate adapter also for	•	For snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 53 x 28 [2.09 x 1.10] and via separate adapter (T008180) for counters 48 x 24 [1.89 x 0.94] chromated	G300004

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

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw



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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 c	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	Emitted interference Immunity to interference	EN 55011 class B EN 61000-6-2		
Device safety	Designed to Protection class Application area	EN 61010 part 1 2 Pollution level 2		

Mechanical characteri	stics
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

General information about the measuring inputs			
Current output	0 24 mA,		
	increment 10 μA		
load	d 20 mA: ≤ 500 0hm		
> 20 mA	: ≤ 400 Ohm		
Voltage output	0 12 V,		
	increment 10 mV		
load	d ≥ 2 kOhm		
Control input HIGH	4 30 V DC		
Hold (HIGH active) LOV	/ 02VDC		
Accuracy	< 0.2% of the full scale value ±0.02 %/K		

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.

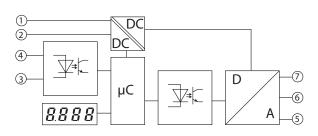
Manual ramping function (Man)

- 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.

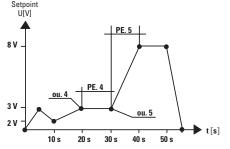
Automatic ramping function (Auto)

- Function of a digital time based controller with analogue 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	10 s	
ou. 8	0 V	
PE 8	5 s	

Inputs

mputo			
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)

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Analogue signal output for mA or <u>V, also time-controlled (DC)</u>

Codix 533

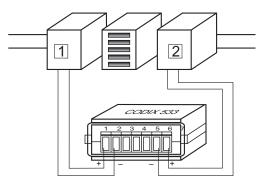
Terminal assignment

Inputs

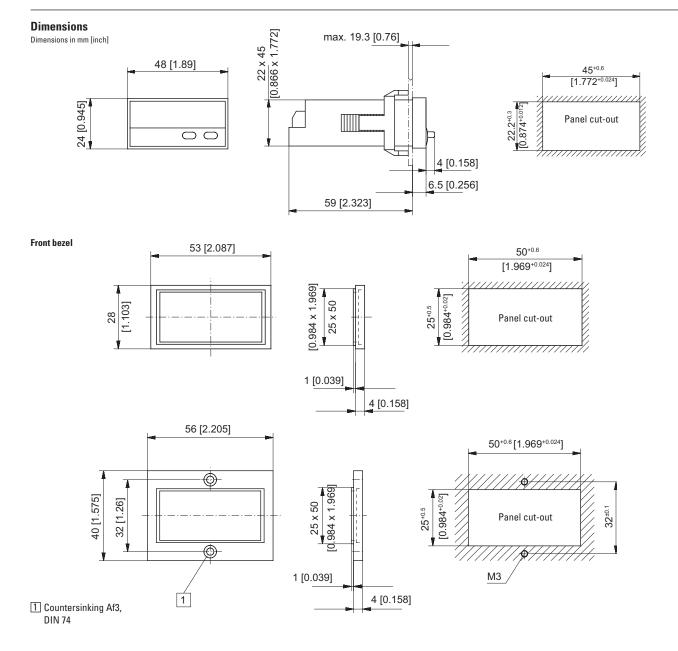
1	2	3	4
10 30 V DC	GND_1	GND_2	Hold

Outputs

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



Power supply
 Analogue input



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LED setpoint adjuster Analogue signal output

Analogue signal output for mA or <u>V, also time-controlled (DC)</u>

Codix 533

Areas of application / Applications

Simple control (fixed installation) in plants, machines and devices

Time-based ramping up or down of:

For use in set-up mode of plants, machines and devices

configuring a control.

Manual (direct) specification or time-based or manual setting (ramping up or down) of:

Calibration of filling levels and flow rates: the setpoint adjuster

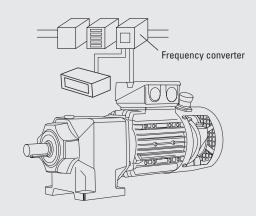
simulates the output signals of a level or flow sensor for

Rotary speeds (e.g. frequency converter), flow rates, temperatures, positions, pressure and fill levels. In short: all physical quantities that can be represented with analogue standard signals.

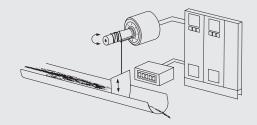
Applications

Simple time controller with analogue signal output

Commissioning, running-in processes or rotary speed control of motors through setpoint setting.



Control of simple, time-based processes by means of an analogue signal, e.g. ramping control for locks and sluices



Solution with different modes

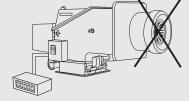
- 2 operating modes are provided for that purpose:
- Manual ramping function
- Automatic ramping function

Advantages

Instead of using an expensive, complex and difficult-to-use PLC, our setpoint adjuster can handle this task as a standalone device. The user saves costs and the task can be performed in a flexible and quick way, even without any prior knowledge. Frequency converter Simulation

Alignment for temperature-based processes without having to heat up the plant:

the setpoint adjuster can simulate various processes for test purposes.



The following operating modes are provided for that purpose: - Manual direct input

- Manual ramping function
- Automatic ramping function

The setpoint adjuster simulates the sensor signal that is read by the physical process, e.g. the rise of the temperature, the filling of tank plants. Expensive and complex running-in of processes can be replaced with the simulation performed by the setpoint adjuster.

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.