

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.

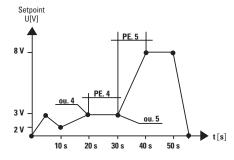
Manual ramping function (Man)

- 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 | |

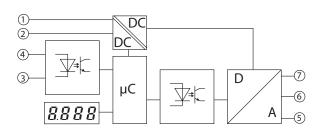
Kübler

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) | | |

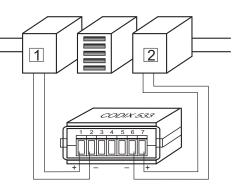
Terminal assignment

Inputs

| 1 | 2 | 3 | 4 |
|------------|-------|-------|------|
| 10 30 V DC | GND_1 | GND_2 | Hold |

Outputs

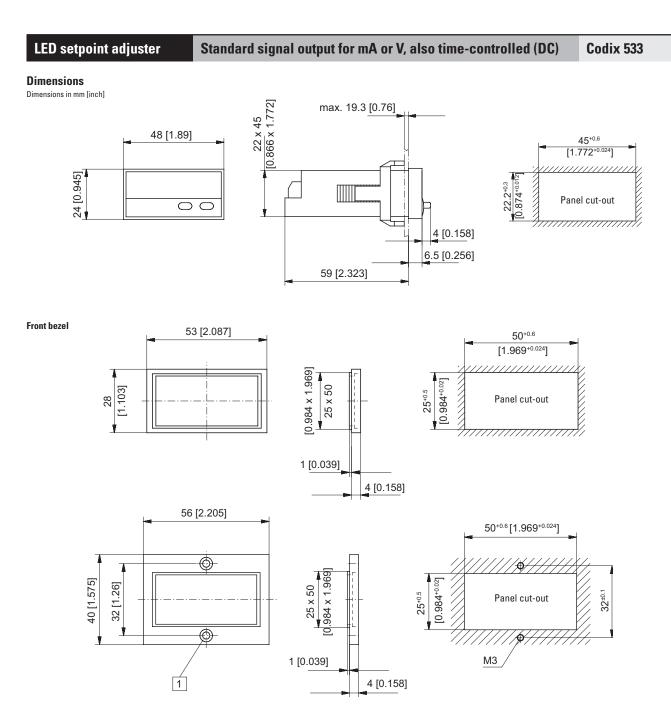
| 5 | 6 | 7 |
|---------|--------------|-----------|
| 0 24 mA | Analog GND_3 | 0 12 V DC |



Supply voltage Analog input

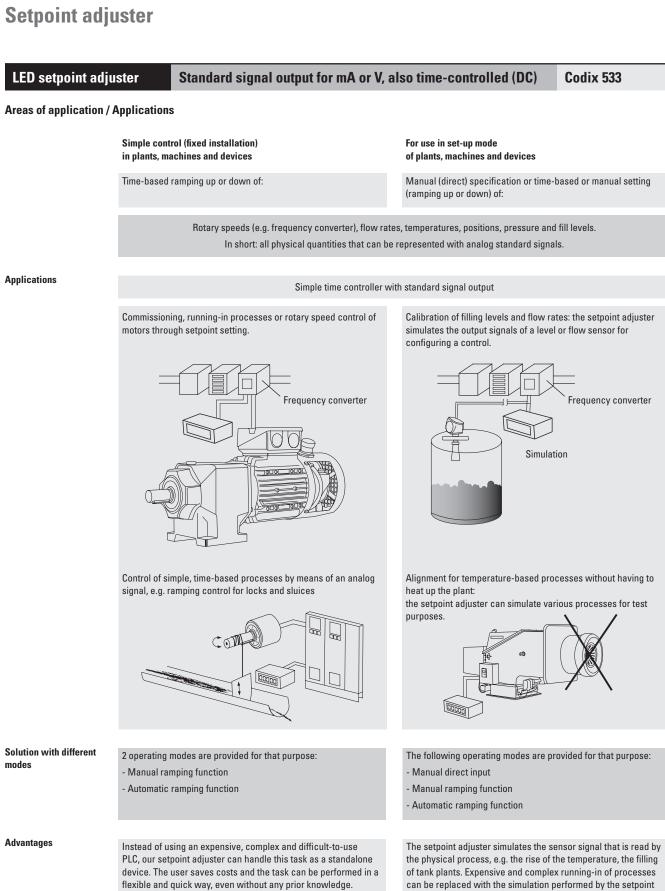
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1 Countersinking Af3, DIN 74





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.