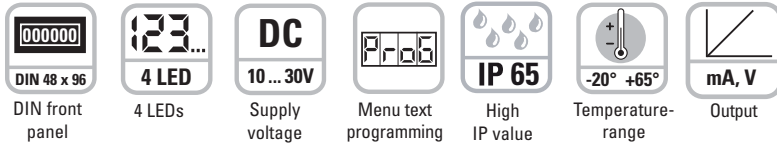


LED Setpoint Adjuster – Codix 533

The Set-point Generator / adjuster Codix 533 triggers a standard signal or a freely programmable signal sequence from 0 ... 12 V or from 0 ... 24 mA

The Set-point Generator / adjuster Codix 533 is a real innovation opening up new application potentials in process technology and automation. .



Innovative:

- Function of a digital time controller with analogue output.
- Manual functions with direct input or stepped incremental output of the set-point.
- 4-digit 8 mm high top-quality LED display
- Physical variables output in the form of 0 to 12 V or 0 to 24 mA analogue signals.
- Units of display can be freely programmed and displayed – no conversion of the specified output value required.
- High accuracy of < 0.1% of the final value.



Cost-saving and compact:

- Ideal for simulation runs without the need for expensive, time-consuming running-in of processes.
- Processes become more cost-effective
- DIN 48 x 24 mm panel-mount housing with installation depth of only 59 mm.

User-friendly:

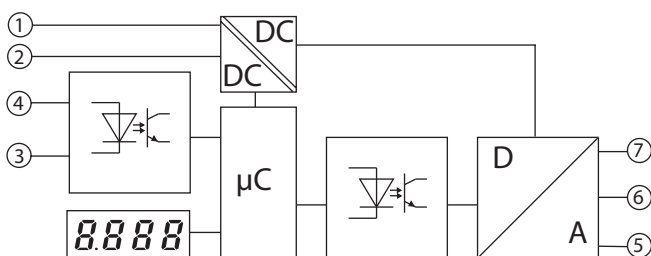
- Simpler to run processes than with a PLC or process controller.
- Everything can be programmed easily by means of 2 keys and the text menu.
- Digital setting - no additional DIP switches or potentiometers.
- Display allows simple monitoring of the specified setpoint output.
- User-friendly display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

Technical data:

Supply voltage:	10 ... 30 V DC, galvanically isolated with integrated protection against incorrect polarity
Power consumption:	max. 1W
Display:	4-digit display, red 7-segment LEDs; height 8 mm [0.35"]
Data backup:	EEPROM
Housing:	housing for control panel 48 x 24 mm [1.89 x 0.945"] accord. to DIN 43 700; RAL 7021, dark grey
Protection:	IP65 (front)
Operating temperature:	-20 ... +65 °C [-4 ... +149 °F]
Storage temperature:	-25 ... +85 °C [-13 ... +185 °F]
Conformity:	conforms to CE requirements acc. to the EC directive 89/36/EEC
EMC:	Immunity to interference: EN55011 class B Emitted interference EN61000-6-2

Test voltages:	EN 61010-1, degree of soiling 2 and overvoltage category 2
Test voltage:	500 V, 50 Hz, 1 min.
Current output:	0 ... 24 mA, increment 10 µA load 20 mA up to ≤ 500 Ohm, > 20 mA up to ≤ 400 Ohm
Voltage output:	0 ... 12 V, increment 10 mV load ≥ 2 kOhm
Control input	high: 4 ... 30 V DC
Hold (high active):	low: 0 ... 2 V DC
Accuracy:	< 0.1 % of the full scale value ±0.01 %/K
Weight:	approx. 50 g [1.764 oz.]
Connections:	screw terminal, pitch 5.08 mm, 7 poles

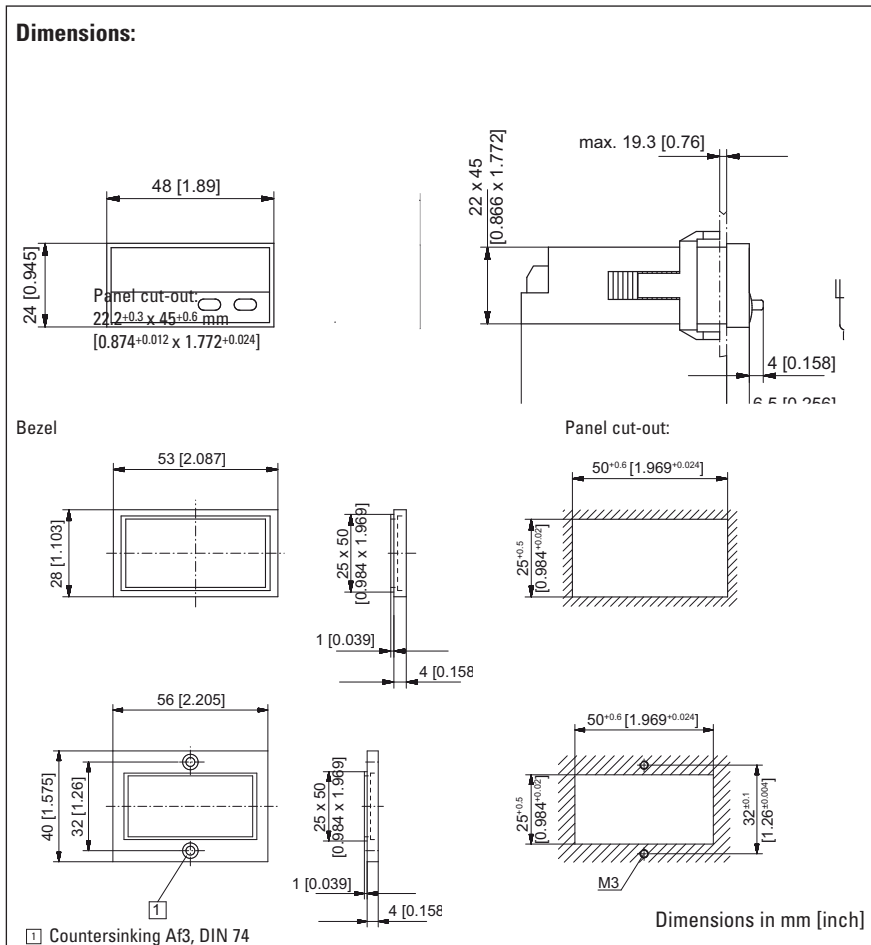
Block diagram:



Inputs
 1: 10 ... 30 V DC
 2: GND_1
 3: GND_2
 4: Hold

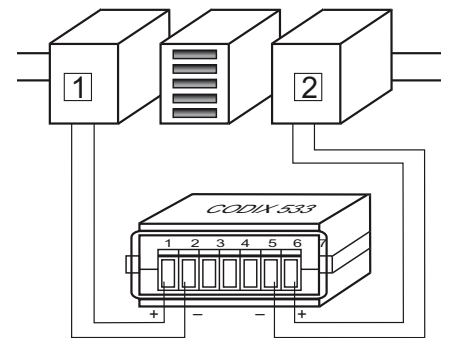
Outputs
 5: 0 ... 24 mA (I_{out})
 6: GND_3
 7: 0 ... 12 V DC (U_{out})

LED Setpoint Adjuster – Codix 533



Terminal assignment:

- | | |
|-----------------|-----------------|
| 1 10 ... 30 VDC | 5 0 ... 24 mA |
| 2 GND 1 | 6 Analog GND 3 |
| 3 GND 2 | 7 0 ... 10 V DC |
| 4 Hold | |



- 1 Power supply
- 2 Analogue input

Delivery includes:

- Digital display
- Panel mounting clip
- Bezel for clip mount,
- Panel cut-out 50 x 25 mm [1.969 x 0.984"]
- Bezel for screw mount,
- Panel cut-out 50 x 25 mm [1.969 x 0.984"]
- Gasket
- 1 set of self-adhesive symbols
- Multilingual operating instructions

Order code:

Codix 533: 6.533.012.300*

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

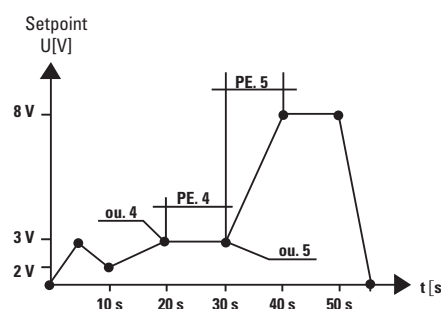
Manual ramping function (Man):

- 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.

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