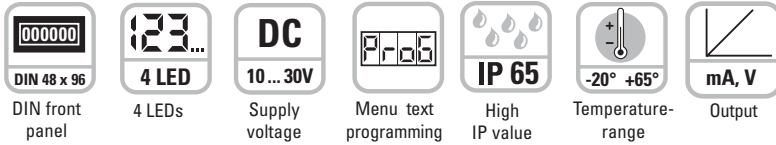


Setpoint generator/ Time based process adjuster CODIX 533

CODIX 533 – the new setpoint compact class for process and automation technology

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.
- Comfortable display form as direct digital value
- 3 functions integrated as standard in the **CODIX 533**, manual and time-based

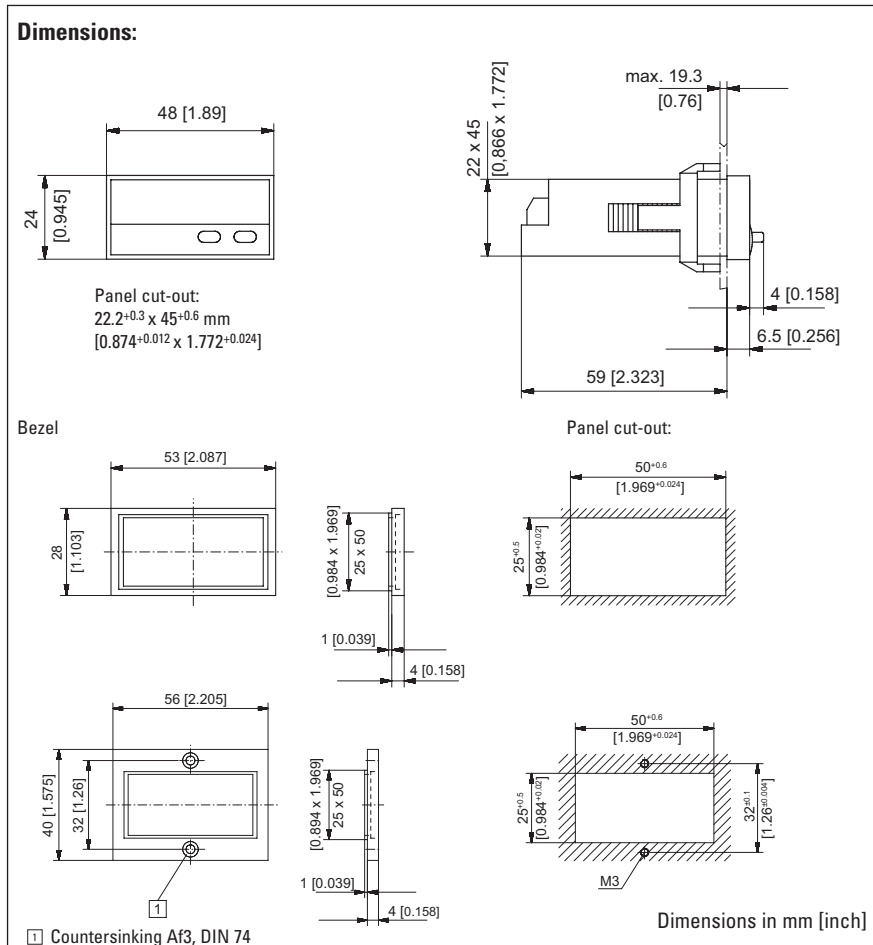
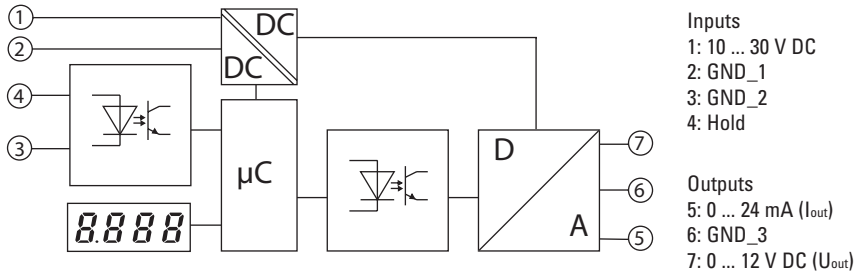
Technical data:

Supply voltage:	10 ... 30 V DC, galvanically isolated with integrated protection against incorrect polarity	Test voltages:	EN 61010-1, degree of soiling 2 and overvoltage category 2
Power consumption:	max. 1W	Test voltage:	500 V, 50 Hz, 1 min.
Display:	4-digit display, red 7-segment LEDs; height 8 mm [0.35"]	Current output:	0 ... 24 mA, increment 10 µA load 20 mA up to ≤ 500 Ohm, > 20 mA up to ≤ 400 Ohm
Data backup:	EEPROM	Voltage output:	0 ... 12 V, increment 10 mV load ≥ 2 kOhm
Housing:	housing for control panel 48 x 24 mm [1.89 x 0.945"] accord. to DIN 43 700; RAL 7021, dark grey	Control input	High: 4 ... 30 V DC
Protection:	IP65 (front)	Hold (high active):	Low: 0 ... 2 V DC
Operating temperature:	-20 ... +65 °C [-4 ... +149 °F]	Accuracy:	< 0.1 % of the terminal value ±0.01 %/K
Storage temperature:	-25 ... +85 °C [-13 ... +185 °F]	Weight:	approx. 50 g [1.764 oz.]
Conformity:	conforms to CE requirements acc. to the EC directive 89/36/EEC	Connections:	screw terminal, pitch 5.08 mm, 7 poles
EMC:	interference emissions EN 55011 class B interference resistance EN61000-6-2		

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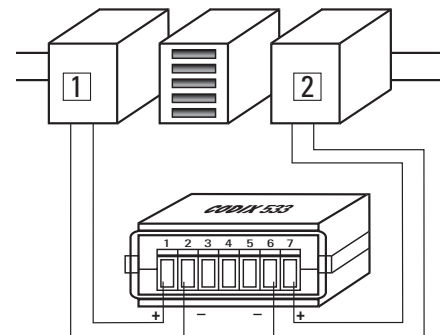
CODIX 533 – the new setpoint compact class for process and automation technology

Block diagram:



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"]
- Seal
- 1 set of self-adhesive symbols
- Multilingual operating instructions

Order code:

CODIX 533: 6.533.012.300

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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

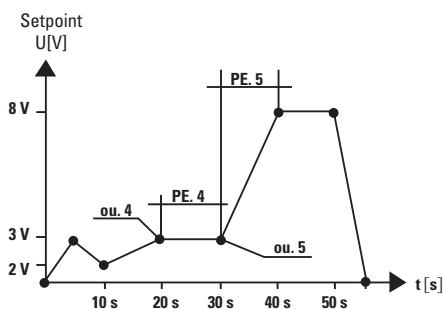
of the increment; the left key decreases the value.

- 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:

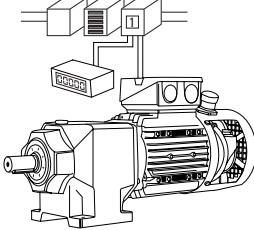
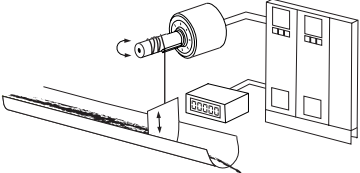
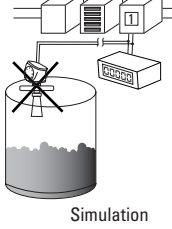
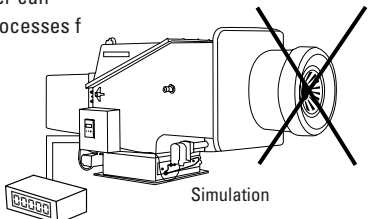


Example with 8 points	
ou. 1	0 V
PE 1	5 s
ou.2	3 V
PE 2	5 s
ou. 3	2 V
PE 3	10 s
ou. 4	3 V
PE 4	10 s
ou. 5	3 V
PE 5	10 s
ou. 6	8 V
PE 6	10 s
ou. 7	8 V
PE 7	10 s
ou. 8	0 V
PE 8	5 s



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Applications:

Applications:	Simple controller (fixed installations) in plant, machinery and equipment.	For use in setting up plant, machinery and equipment.
	Time based or manual ramping up or ramping down of:	Manual (direct) input or time based/manual set-up (ramping up or ramping down) of:
Rotary speeds (e.g. frequency inverters), flow rates, temperature, position, pressure, level, i.e. all physical variables that can be displayed via analogue signals)		
Simple time-switch with analogue output		
<p>Starting and running-in or speed control of motors via setpoint specification</p>  <p style="text-align: center;">1 frequency inverters</p> <p>Control of simple time-dependent processes by means of an analogue signal, e.g. ramping control for locks and sluices, flow valves etc..</p> 		<p>Calibration of fill levels and flow rates: the setpoint adjuster simulates the output signals of a level or flow sensor for configuring a PLC.</p>  <p style="text-align: right;">Simulation</p> <p>Adjustment of temperature-dependent processes, without the need to heat up the plant. Plant commissioning: the setpoint adjuster can simulate various processes for test purposes.</p>  <p style="text-align: right;">Simulation</p>
Solution with various modes:	<p>To do this 2 selectable operating modes are provided</p> <ul style="list-style-type: none"> - Manual ramping function - Automatic ramping function 	<p>To do this, the following operating modes are provided</p> <ul style="list-style-type: none"> - Manual direct input - Manual ramping function - Automatic ramping function
Benefits:	<p>Our Setpoint Adjuster can undertake this task as a stand-alone device, instead of having to use an expensive, complex, difficult-to-programme PLC. The user saves on costs and the job can be carried out quickly and flexibly – without specialised training being necessary.</p>	<p>The Setpoint Adjuster simulates the sensor signal, which detects the physical process, e.g. ramping up of temperature, filling of tanks. The expensive, time-consuming running-in of processes can be eliminated by using the Setpoint Adjuster to simulate the function.</p>
The output signal can be displayed directly or can be scaled to any desired engineering unit. The user can see exactly what is happening at that particular moment in time.		
An easy-to-programme controller with three selectable modes is available.		