

Process controllers

LCD touch process controllers

2 standard signal inputs + analog and switching outputs

573T



The process controller 573T with 2 analog inputs can be used in both single channel mode as well as in dual channel. In dual channel mode, all arithmetic operations are available for displaying the sum total, difference, ratio or the product. Inputs and outputs can be scaled separately.

Can be used as a simple process signal converter, process controller (ON/OFF controller) or for complex measuring tasks, where the relationship between two values, one to the other, must be monitored, calculated or further processed in a higher-level controller.



IO-Link



AC 115...230V	DC 18 ... 30 V									
Supply voltage	2 inputs	4 switching outputs	Relay output	Analog output	Resolution analog output	RS232 / RS485 interface	High protection level	Tare function	DIN front bezel	
8 LCDs	Menu-driven programming	Touch display	Operation with gloves							

Innovative

- 2 separate freely scalable analog inputs ± 10 V and 0/4 ... 20 mA, resolution 16 bit.
- Tare function – the unit can be set to 0 for any input voltage.
- Programmable linearization: with up to 24 control points, input via key-pad or via the teach-in function.
- Averaging measurement over 2 to 16 measuring cycles, for use with serious fluctuations of the input signals.
- Easy to program - the desired display value is simply keyed-in for a specific input signal.
- Fast 1 ms sampling rate per channel alternating.
- Serial interface RS232 or RS485 for reading data in and out.
- Total sum counter for single and total values – time-controlled or manually controlled.
- Optional IO-Link input/output interface with Device 1.1 protocol.

Compact and multifunctional

- Up to 3 display values in one device, display 1, display 2 + display calculated based on 1 and 2.
- AC and DC supply voltage in one device.
- Simple menu-driven programming via touch display, as well as tare or teach-in key.
- Can be used as a simple process signal converter, process controller (ON/OFF controller) or for complex measuring tasks where the relationship between two values, one to the other, must be monitored, calculated or further processed in a higher-level controller.
- Mathematical operation of the measured values of inputs 1 and 2. The result can also if required be multiplied, divided or added to an offset value, in order to obtain the desired display value.
- Analog output 0/4 ... 20 mA or ± 10 V.
- 4 fast PNP switching outputs (reaction time < 1 ms), with switching hysteresis, step or tracking preset.
- Programmable display refresh time.

Multifunctional display

Large-scale 4-digit display over the whole display surface.

2-line display modes for the simultaneous display of 2 separate measured or calculated values.

Colour change of the display to green, yellow or red.



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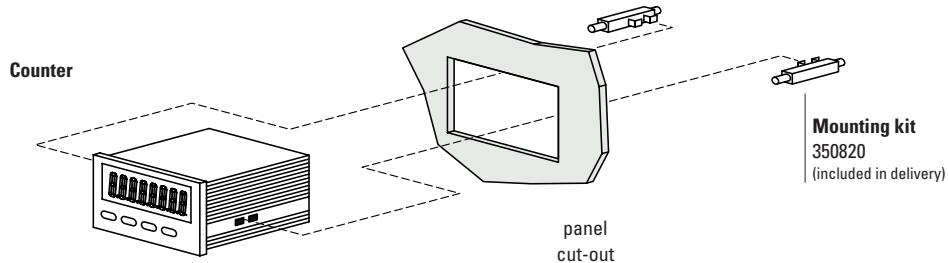
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Order code	6.573T . 01 X . X 0 X . 001		
a Relay outputs	d Electrical outputs	Delivery specification	Stock types
0 = 2 relay outputs	0 = none	· Display 573T	6.573T.012.301
2 = without output	1 = RS232, 4 switching outputs	· Gasket	6.573T.012.302
b Supply voltage	2 = RS232, 4 switching outputs, 16 Bit analog output	· Mounting kit	6.573T.010.302
3 = 18 ... 30 V DC	3 = RS485, 4 switching outputs	· Manual German/English	6.573T.010.E02
E = 18 ... 30 V DC + 115 ... 230 V AC	4 = RS485, 4 switching outputs, 16 Bit analog output		
c Further options	e Option IO-Link (without IO-Link, omit the last 3 digits)		
0 = none	001 = IO-Link		

Accessories / Mounting examples



		Type / size	Description		Order no.	
Mounting kit			1 kit consists of 2 latch hooks		350820	
Mounting frame		cut-out 92 x 45 mm [3.62 x 1.77"]	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	grey	G300005	-
Software for parameter setting OSxx			https://www.kuebler.com/de/docu-finder search box: OS1			

incl. in delivery

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Technical data

General technical data

Display	LCD touch display, 13 mm high 8 decades + sign, 3-color
Operating temperature	-20 °C ... +60 °C [-4°F ... +140°F] (non-condensing)
Storage temperature	-25 °C ... +70 °C [-13°F ... +158°F]
Altitude	up to 2000 m [6562']

Electrical characteristics

Supply voltage	18 ... 30 V DC, with reverse polarity protection (rated voltage 24 V DC) 115 ... 230 V AC, 50/60 Hz (option)	
Current consumption DC	100 mA, without load	
Power consumption AC	approx. 3 VA, without load	
Auxiliary power supply (for encoder)		
AC supply	24 V DC ±15 %, 150 mA (up to +45 °C) 80 mA (from +46 °C)	
DC supply	U _B - 1 V, 250 mA	
Reference output		
output voltage	10 V DC	
accuracy	±0,1 %	
load	max. 10 mA / ≥ 1 kOhm	
EMC standards	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61326-3-2	
Device safety	designed to protection class application area	EN 61010 part 1 2 pollution level 2

Mechanical characteristics

Housing	ABS UL94-V-0
Weight	approx. 200 g
Protection	IP65 (front side) IP20 (rear side)
Terminals	max. 1.5 mm ² / AWG16

Inputs

2 analog inputs	0 ... 20 mA, 4 ... 20 mA -10 ... +10 V input resistance current input resistance voltage measuring time per channel resolution accuracy
3 control inputs (Cnt 1 - 3)	PNP input frequency input level load

Outputs (option)

4 switching outputs	5 ... 30 V DC/200 mA (PNP) reaction time < 1 ms
Interface	RS232 or RS485 Drivecom Protokoll / Modbus / Printer 9600 ... 38400 Baud
Analog output	-10 ... +10 V (max. 2 mA) or 0 ... 20 mA, 4 ... 20 mA (max. 270 Ω) resolution accuracy reaction time 16 bit (15 bit + sign) ±0.1 % < 150 ms
Relay output	2 changeover contacts (potential free) max. 250 V AC / 3 A / 750 VA max. 150 V DC / 2 A / 50 W reaction time < 20 ms

Interface characteristics IO-Link

Assembly / Revision	Device / 1.1
Bitrate	COM3
Port classe	Type A

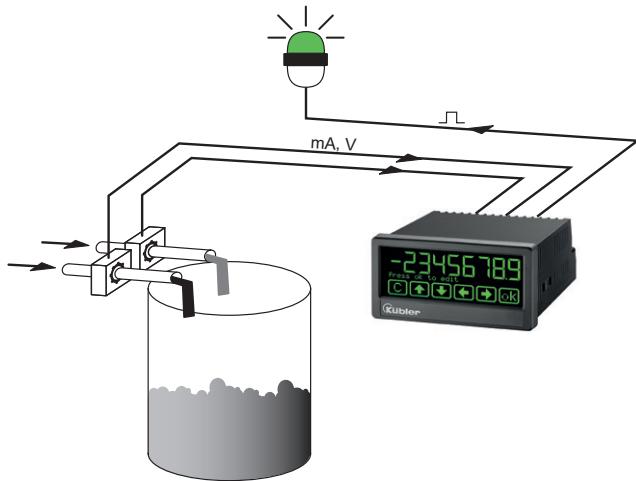
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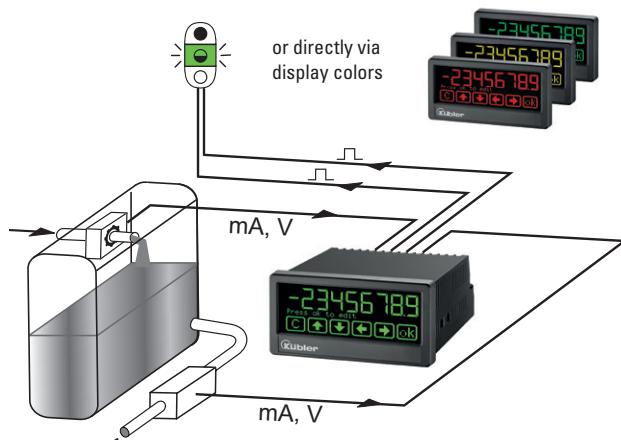
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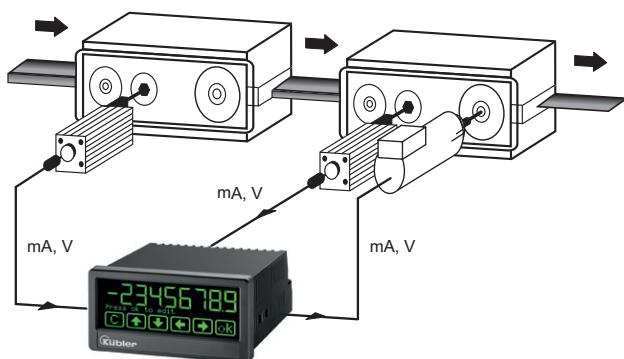
Application examples



Monitoring of mixing ratios and display of flow rate



Level monitoring and adjustment, display of inflow and outflow



Material stretching, as well as monitoring of synchronous operation,
with display of individual speeds

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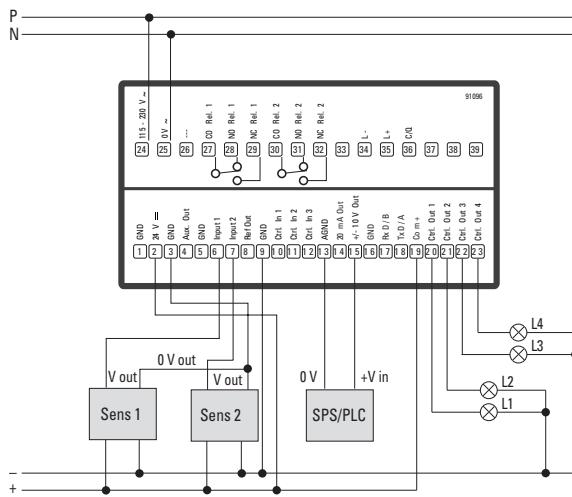
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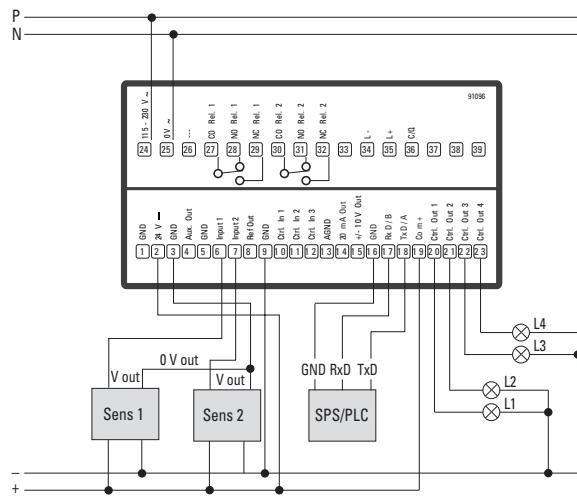
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Connection example

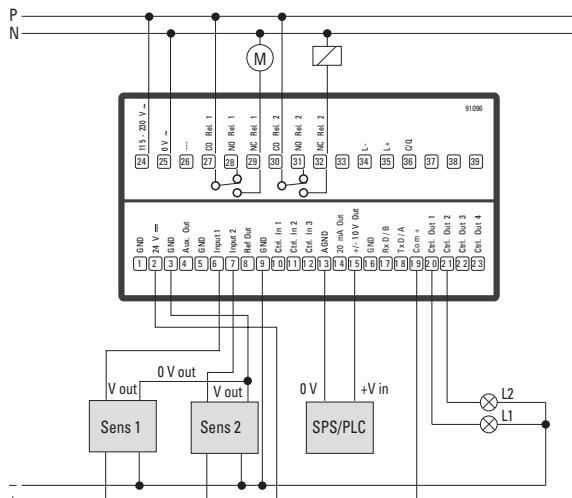
Analog input, analog output, switching outputs



Analog input, switching outputs, interface RS232



Analog input, analog output, load output (relay), switching outputs



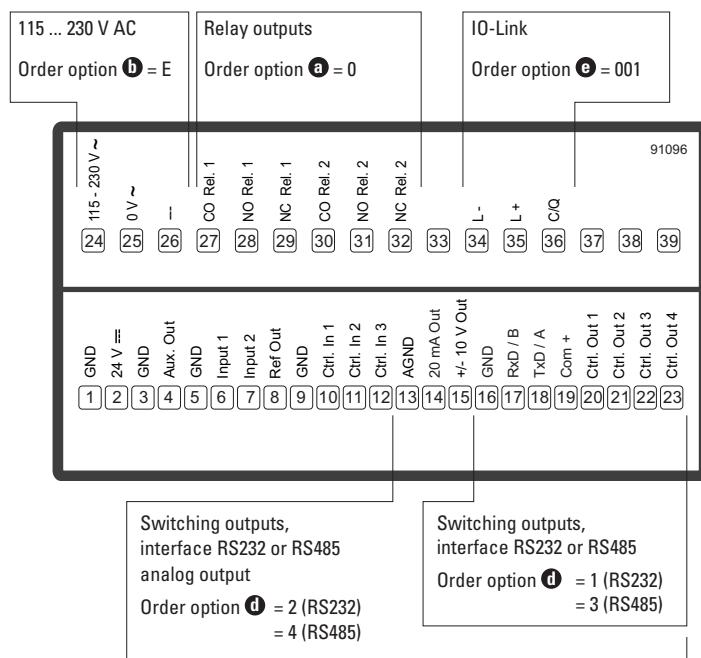
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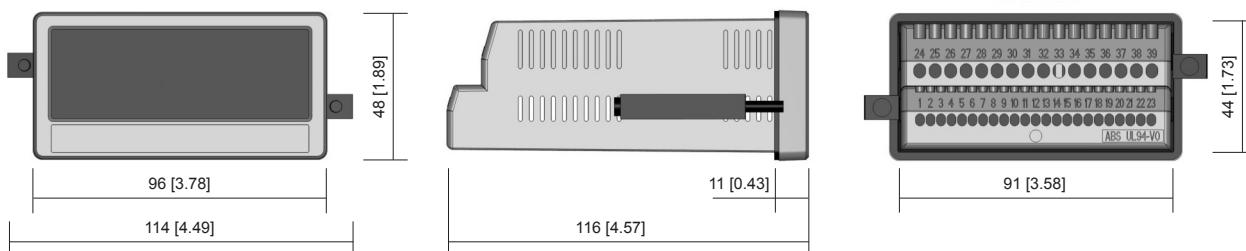
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Terminal assignment



Dimensions

Dimensions in mm [inch]



Panel cut-out
92 x 45 mm [3.62 x 1.77"]