

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.



AC 115...230 V Supply voltage	DC 18 ... 30 V Supply voltage	mA, V 2 inputs	4 4 switching outputs	2 Relay output	mA, V Analog output	16 bit Resolution analog output	RS232/RS485 RS232 / RS485 interface	IP65 High protection level	Tara Tare function	DIN 96x48 DIN front bezel	
123... 8 LCDs LCD touch display	Prog Menu-driven programming	Touch Touch display	Gloves 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.



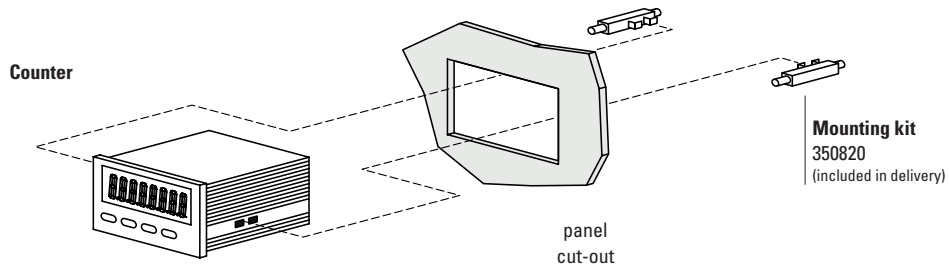
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Order code **6.573T . 01 X . X 0 X . 001**

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

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
Device safety	designed to EN 61010 part 1 protection class 2 application area 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	R _i = 120 Ohm
input resistance voltage	R _i = 50 kOhm
measuring time per channel	min. 1 ms (programmable)
resolution	16 bit (15 bit + sign)
accuracy	±0.1 % ±1 digit
3 control inputs (Cnt 1 - 3)	PNP
input frequency	max. 10 kHz
input level	HTL: Low 0 ... 3 V / High 9 ... 30 V
load	max. 2 mA / R _i > 15 kΩ / 470 pF

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 16 bit (15 bit + sign) accuracy ±0.1 % reaction time < 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

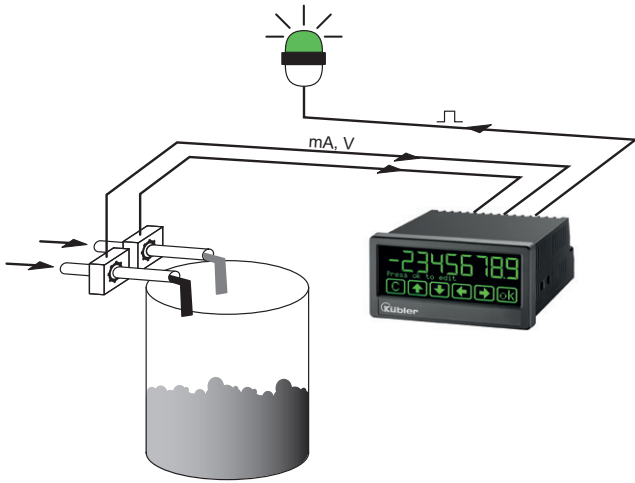
Interface characteristics IO-Link	
Assembly / Revision	Device / 1.1
Bitrate	COM3
Port classe	Type A

Approvals	
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU
UKCA compliant in accordance with	
EMC Regulations	S.I. 2016/1091
RoHS Regulations	S.I. 2012/3032
Low Voltage Regulations	S.I. 2016/1101

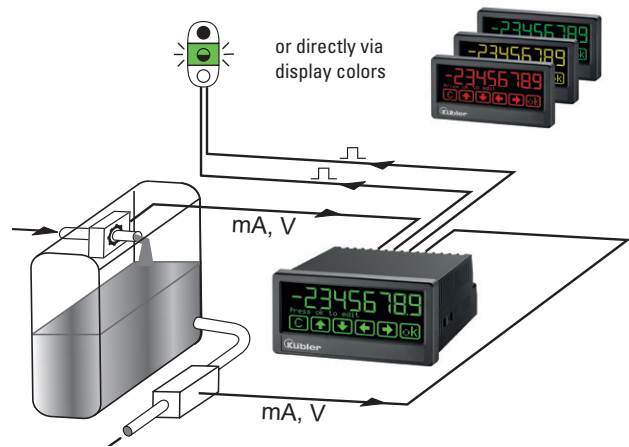
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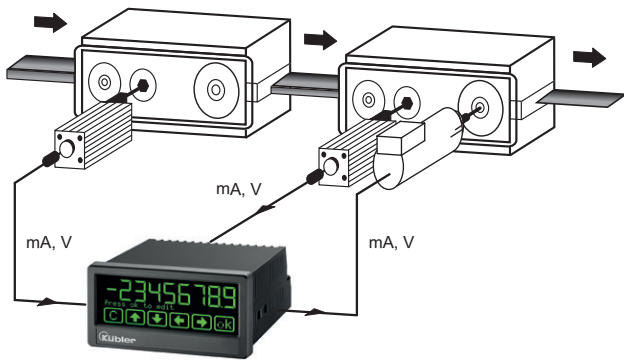
Application examples



Monitoring of mixing ratios and display of flow rate



Level monitoring and adjustment, display of inflow and outflow



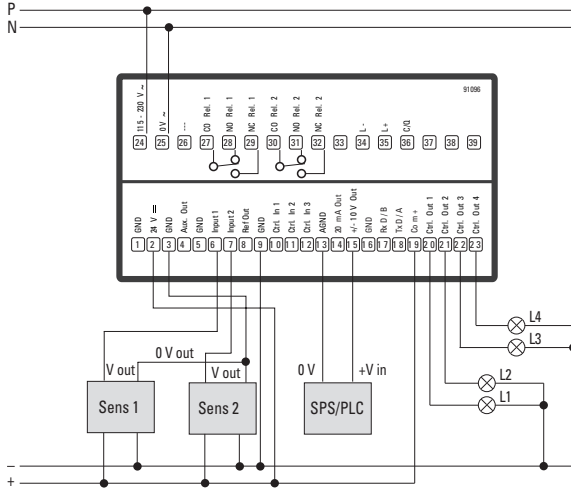
Material stretching, as well as monitoring of synchronous operation, with display of individual speeds

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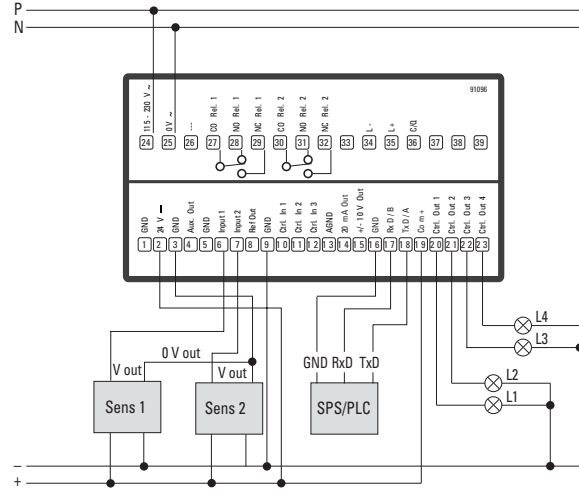
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Connection example

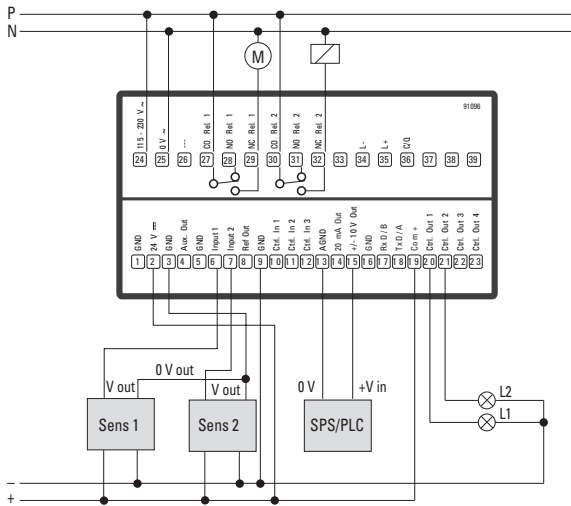
Analog input, analog output, switching outputs



Analog input, switching outputs, interface RS232



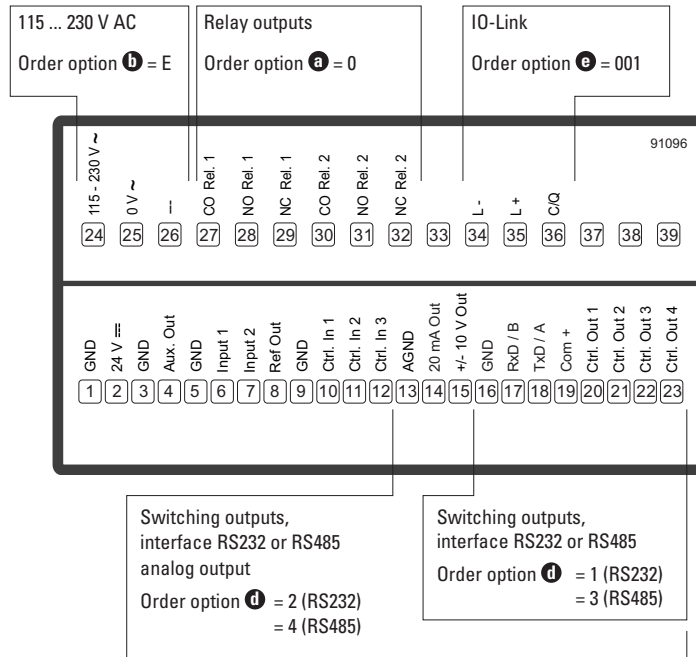
Analog input, analog output, load output (relay), switching outputs



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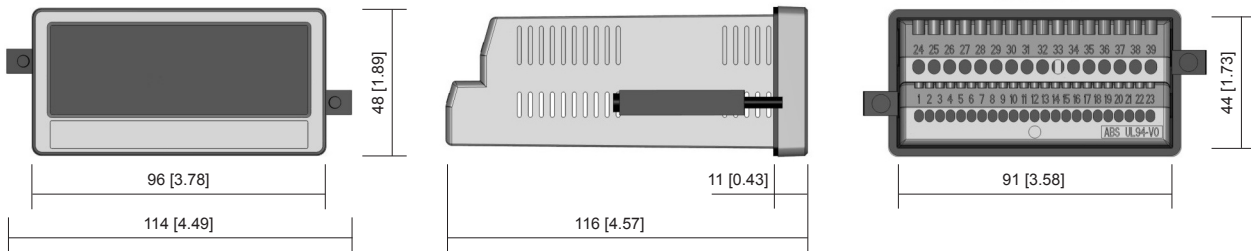
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Terminal assignment



Dimensions

Dimensions in mm [inch]



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