

# Position displays

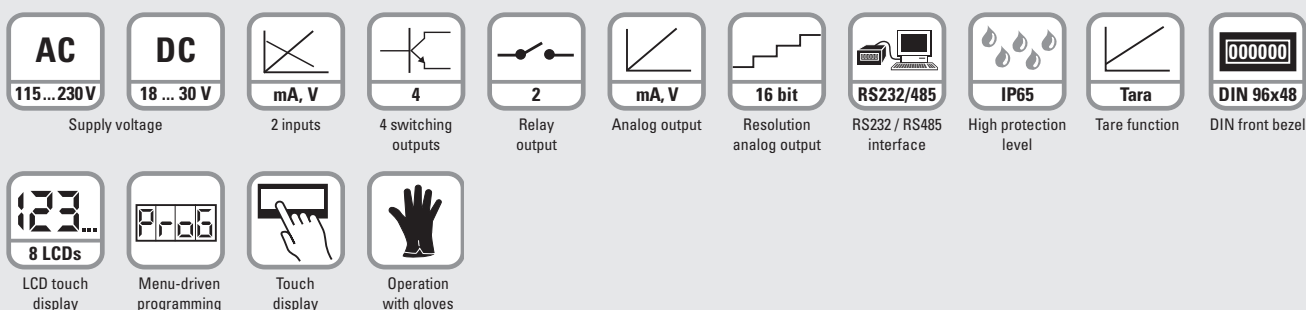
LCD touch IO-Link display

2 measuring values + analog and switching outputs

573T IO-Link



The 573T IO-Link display can display a maximum of 2 measuring values simultaneously and 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.



## Innovative

- IO-Link input/output interface with Device 1.1 protocol.
- 2 separate freely scalable analog inputs  $\pm 10$  V and  $0/4 \dots 20$  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.

## 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 input 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  $0/4 \dots 20$  mA or  $\pm 10$  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.

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

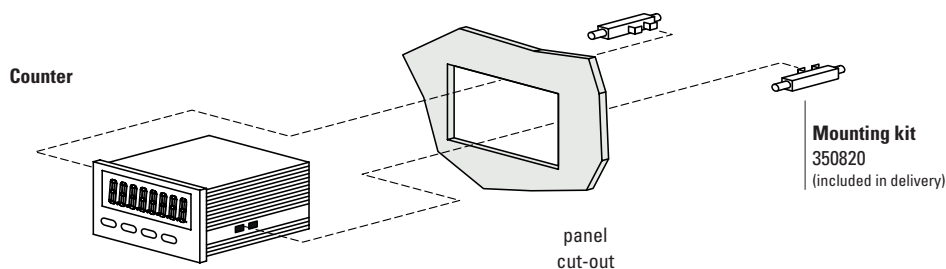


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LCD touch IO-Link display	2 measuring values + analog and switching outputs	573T IO-Link
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Order code		6.573T . 01 X . X 0 X . 001
		<div>a</div> <div>b</div> <div>c</div> <div>d</div> <div>e</div>
<b>a</b> Relay outputs 0 = 2 relay outputs 2 = without output  <b>b</b> Supply voltage 3 = 18 ... 30 V DC E = 18 ... 30 V DC + 115 ... 230 V AC  <b>c</b> Further options 0 = none		<b>d</b> Electrical outputs 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  <b>e</b> IO-Link 001 = IO-Link
		<i>Delivery specification</i> · Display 573T · Gasket · Mounting kit · Manual German/English

## 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			<a href="https://www.kuebler.com/de/docu-finder">https://www.kuebler.com/de/docu-finder</a> search box: OS1			
						incl. in delivery

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## Technical data

### General technical data

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

### Electrical characteristics

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

### Mechanical characteristics

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

### Inputs

<b>2 analog inputs</b>	0 ... 20 mA, 4 ... 20 mA -10 ... +10 V
input resistance current	R <sub>i</sub> = 120 Ohm
input resistance voltage	R <sub>i</sub> = 50 kOhm
measuring time per channel	min. 1 ms (programmable)
resolution	16 bit (15 bit + sign)
accuracy	$\pm 0.1\%$ $\pm 1$ digit
<b>3 control inputs (Cnt 1 - 3)</b>	PNP
input frequency	max. 10 kHz
input level	HTL: Low 0 ... 3 V / High 9 ... 30 V
load	max. 2 mA / R <sub>i</sub> > 15 kΩ / 470 pF

### Outputs (option)

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

### Interface characteristics IO-Link

<b>Assembly / Revision</b>	Device / 1.1
<b>Bitrate</b>	COM3
<b>Port classe</b>	Type A

### Approvals

<b>CE compliant</b> in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU

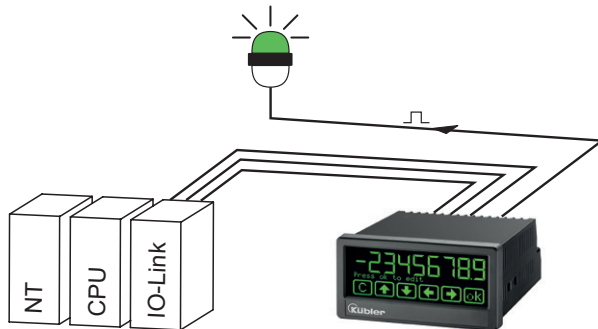
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## LCD touch IO-Link display

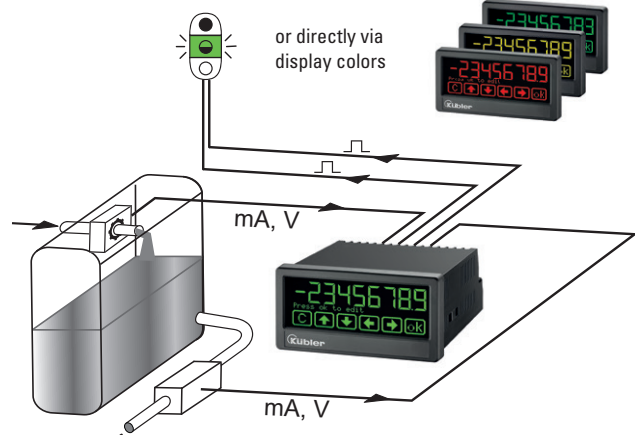
## 2 measuring values + analog and switching outputs

## 573T IO-Link

### Application examples



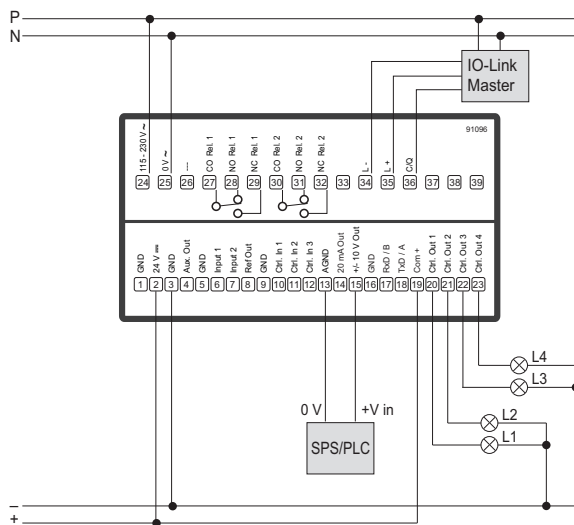
IO-Link Master with display of max. 2 measuring values



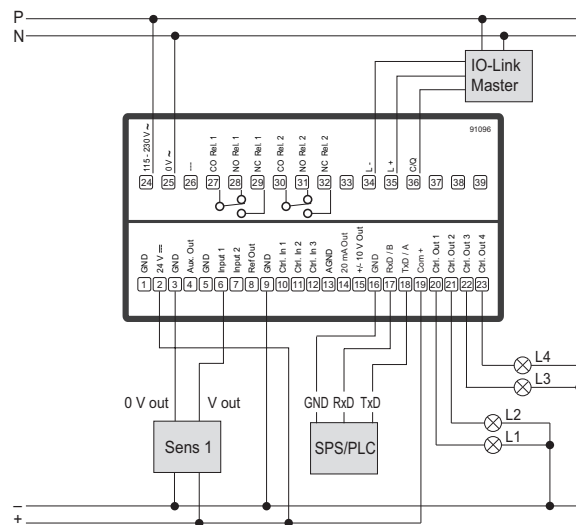
Level monitoring and adjustment, display of inflow and outflow

### Connection example

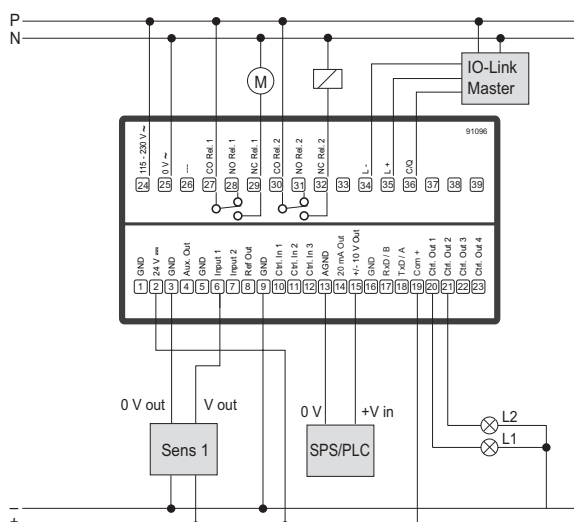
#### IO-Link Master, analog output, switching outputs



#### IO-Link Master, analog input, switching outputs, interface RS232



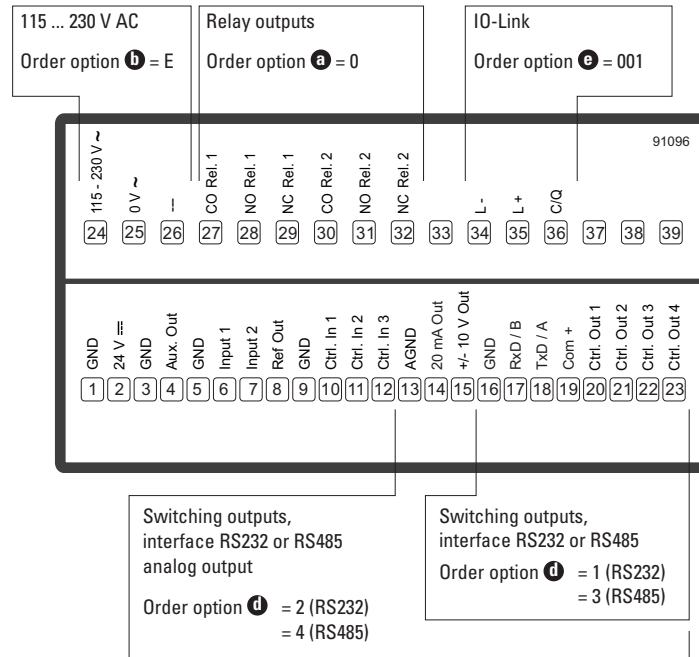
#### IO-Link Master, analog input, analog output, load output (relay), switching outputs



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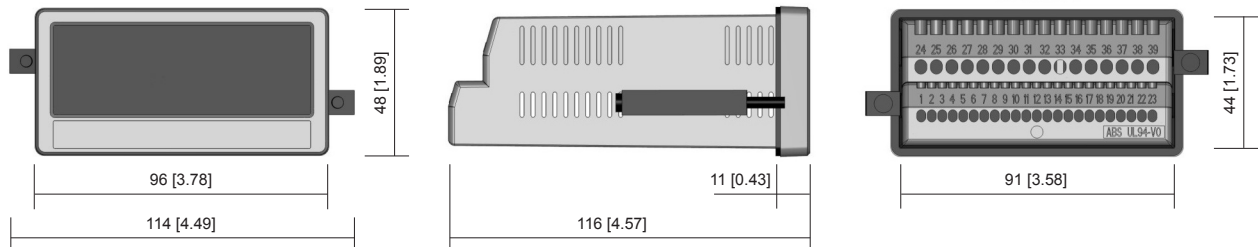
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## Terminal assignment



## Dimensions

Dimensions in mm [inch]



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