

# Multifunction devices, electronic

**LCD touch multifunction preset counters**    **Pulse, frequency, time (also reciprocal) – (AC+DC)**    **571T**



The multifunction preset counter 571T with its max. 250 kHz count frequency is ideal for fast counting tasks. It can also be used as a tachometer, short time meter, stop-watch or to measure machine cycle times or throughput times.

Output options include 4 limit values, analog output and RS232 or RS485 interface.

This device is thus able to carry out virtually all count, measurement and control tasks.



<b>AC</b> 115...230 V Supply voltage	<b>DC</b> 18 ... 30 V Supply voltage	<b>Multifunctional</b> r/f Hz	<b>max.</b> 1 MHz Input frequency (RS422)	<b>4</b> 4 switching outputs	<b>2</b> Relay output	<b>mA, V</b> Analog output	<b>16 bit</b> Resolution analog output	<b>RS232/485</b> RS232 / RS485 interface	<b>IP65</b> High protection level	<b>Position</b> Position display
<b>DIN 96x48</b> DIN front bezel	<b>8 LCDs</b> LCD touch display	<b>Menu-driven programming</b>	<b>Touch display</b>	<b>Operation with gloves</b>						

## Characteristics

- Fast count input, works with our Limes measuring system (250 kHz/HTL, 1 MHz/RS422).
- 4 switching outputs to work as limit values (reaction time < 1 ms).
- Scalable analog output (reaction time < 1 ms), resolution 16 bit, -10 ... +10 V, 0 ... 20 mA or 4 ... 20 mA.
- Serial interface RS232 or RS485 for reading data in and out.
- Sensor power supply 24 V DC / 150 mA (AC version) or U<sub>B</sub> - 1 V / max. 250 mA (DC version).
- 96 x 48 mm DIN housing, IP65.
- Touch display with 8-digit display value and menu-driven programming.
- 2 relay outputs that can be assigned to the limit values.

## Benefits

- AC and DC supply voltage in one unit.
- Measuring function can be programmed for RPM, speed, speed from elapsed time, machine cycle time, throughput time (reciprocal rotary speed), as well as numerous count and stop-watch functions.
- 4 switching outputs; can also be programmed as a tracking preset.
- Freely programmable.
- Large 13 mm high LCD display, 8-digit, with adjustable brightness. Tri-color – red / green / yellow – programmable.
- Display linearization with teach function.

## 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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<b>Order code</b>	6.571T . 01 X . X X X
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<b>a</b> <i>Relay outputs</i> 0 = 2 relay outputs 2 = without output	<b>c</b> <i>Further options</i> 0 = HTL count inputs (standard) A = RS422 / HTL differential / HTL count inputs (option)	<i>Delivery specification</i> · Display 571T · Gasket · Mounting kit · Manual German/English	<i>Stock types</i> 6.571T.012.301 6.571T.012.302 6.571T.010.302 6.571T.010.E02
<b>b</b> <i>Supply voltage</i> 3 = 18 ... 30 V DC E = 18 ... 30 V DC + 115 ... 230 V AC	<b>d</b> <i>Electrical outputs</i> 0 = none 1 = RS232, 4 switching outputs 2 = RS232, 4 switching outputs, analog output 3 = RS485, 4 switching outputs 4 = RS485, 4 switching outputs, analog output		

Accessories		Order no.
<b>Mounting frame</b> with cut-out 92 x 45 [3.62 x 1.77]	for snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 96 x 48 [3.74 x 1.89]	grey <b>G300005</b>
<b>OSxx software for parameter setting</b>	can be downloaded at <a href="http://www.kuebler.com">www.kuebler.com</a>	

Suitable gaskets as well as further accessories can be found in the accessories section or in the accessories area of our website at: [www.kuebler.com/accessories](http://www.kuebler.com/accessories).

### 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 voltage for sensors</b> (with RS 422 switchable from 24 V DC to 5 V DC / 250 mA)	AC supply 24 V DC ± 15 %, 150 mA (up to +45°C) 80 mA (from +46°C) DC supply U <sub>B</sub> - 1 V, 250 mA
<b>EMC standards</b>	EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61326-3-2
<b>Device safety</b>	designed to protection class 2 application area 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>

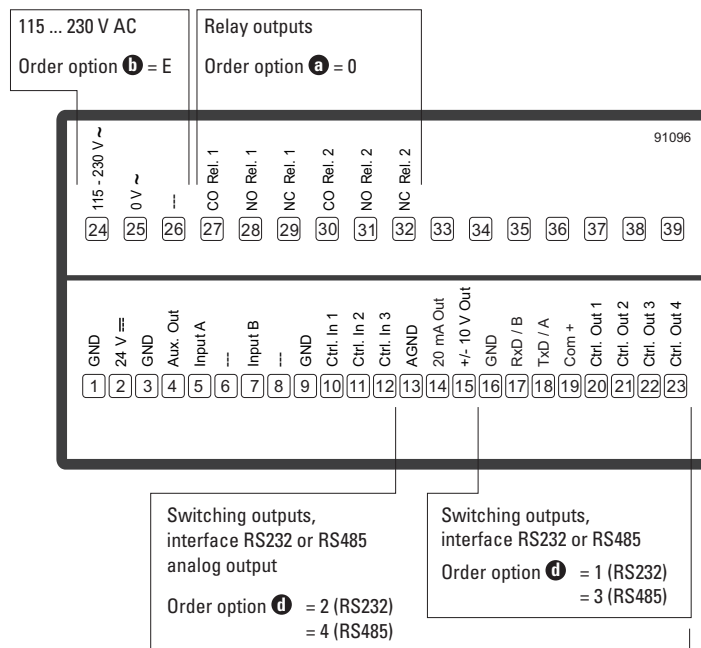
Inputs	
<b>2 incremental inputs (A, B)</b> HTL (standard)	pulse Tri-State, PNP, NPN and Namur input frequency max. 250 kHz input level Low: 0 ... 3 V / High: 9 ... 30 V load max. 6 mA / Ri > 5 kΩ / 470 pF
<b>4 incremental inputs (A, /A, B, /B)</b> RS422 / HTL differential / HTL PNP-NPN (option)	input frequency RS422: max. 1 MHz HTL differential: max. 500 kHz HTL: max. 250 kHz input level RS422: > 0.5 V HTL differential: > 2 V HTL: Low 0 ... 3 V / High 9 ... 30 V load max. 3 mA / Ri > 10 kΩ / 47 pF
<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 / Ri > 15 kΩ / 470 pF
<b>Accuracy frequency</b>	±1 ppm ±1 digit

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 protocol / 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 ±0.1 % reaction time < 1 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 < 20 ms

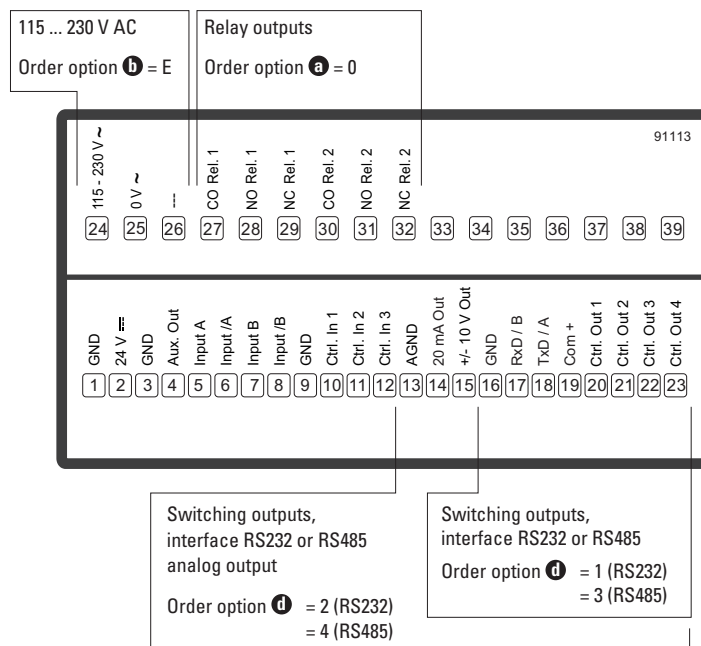
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**Terminal assignment HTL (standard)**



**Terminal assignment RS422 / HTL differential / HTL (option)**



### Dimensions

Dimensions in mm [inch]

