

Стандартные контроллеры сигналов Codix 565, 573Т, тензодатчики давления Codix 566

Технические характеристики

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Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: kgu@nt-rt.ru || сайт: <https://kubler.nt-rt.ru/>

Strain-gauge controllers

LED strain-gauge controllers

For strain-gauge inputs (AC+DC)

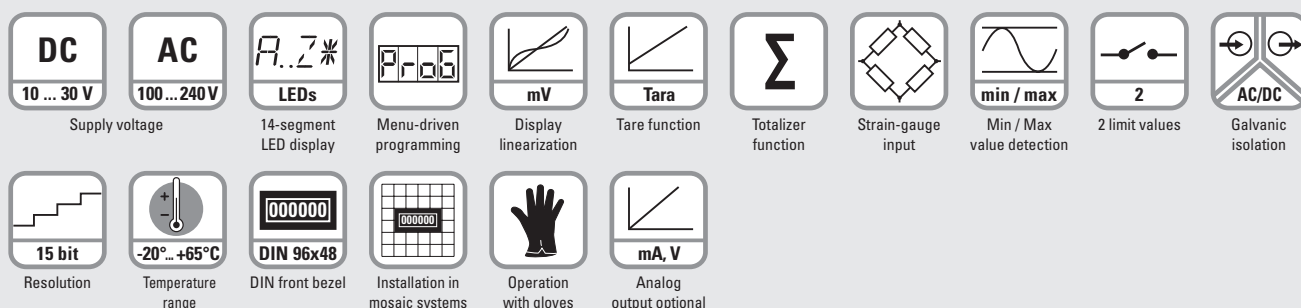
Codix 566



The process controller Codix 566 with totalizer function displays measured values from all common strain-gauge inputs in high resolution. In addition it can monitor and control 2 limit values.

These fast displays set new standards when it comes to user friendliness. Their easy-to-read 14-segment LED display, easy-to-understand running help texts and a practical quick-start guide eliminate the need to wade through time-consuming full instruction manuals.

With optional analog output.



User-friendly

- Practical quick-start guide for setting the parameters and operating the device.
- Help text as running text.
- Easy-to-read 14-segment LED, 6-digit display, 14 mm high.
- Simple programming via 4 keys on the front.
- One front key as well as 2 additional inputs can be programmed for specific applications.
- Customer-specific characteristic (linearization) curve via 12 control points for all measurement signal inputs.
- MIN/MAX memory function, individually resettable.

Powerful

- Sampling rate of 10 readings per second.
- Application-specific characteristic curves via 12 measurement points.
- Manual totalizer function for totalizing the measured values. Can be reset separately.
- 2 relay outputs (changeover contacts) for limit monitoring with hysteresis and ON/OFF delay function for current measured or totalizer values.
- Analog output for the current measured value, MIN-value, MAX-value or totalizer value.
- Auxiliary sensor supply voltage 10 V DC / 30 mA for powering 350 Ω bridges.
- Inputs and outputs galvanically isolated.
- Digital filter (first-order) for smoothing display fluctuation with unstable input signals.
- Tare function.

Order code

6.56 6 . 0 1 0 . X 0 X
a b c d

a Input type

6 = Strain-gauge inputs

b Outputs

0 = relays

c Supply voltage

0 = 100 ... 240 V AC, ±10 %

3 = 10 ... 30 V DC

d Further outputs (optional)

0 = none

9 = analog output (only for DC version)

Delivery specification:

- Process device
- Mounting clip
- Gasket
- Instruction manual, multilingual
- 1 sheet of self-adhesive symbols
- Quick-start guide

Practical quick-start guide for setting the parameters and operating the device.

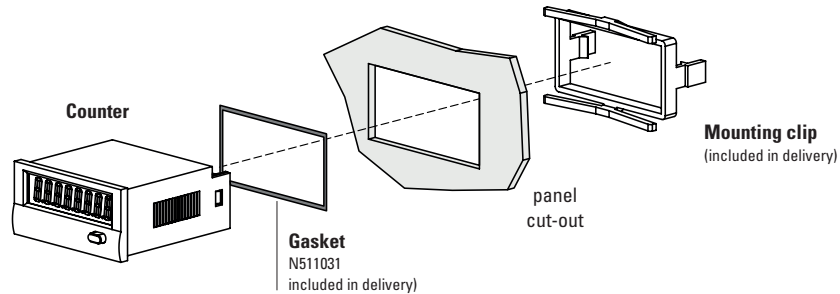
The guide can be affixed directly to the front of the unit and can be removed and re-applied as required.



Strain-gauge controllers

LED strain-gauge controllers	For strain-gauge inputs (AC+DC)	Codix 566
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Accessories / Mounting examples



		Type / size	Description		Order no.	
Gasket counter			96 x 49 mm [3.78 x 1.93"]		N511031	
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	—
Screw terminal (Replacement part)			1 ... 7, pitch 3.81 1 ... 2, pitch 5.08	7 pin 2 pin	N100387 N100133	
incl. in delivery						

Strain-gauge controllers

LED strain-gauge controllers	For strain-gauge inputs (AC+DC)	Codix 566
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Technical data

General technical data	
Display	6-digit, 14 segment LED
Digit height	14 mm [0.55"]
Display range	-199999 ... 999999, with leading zero blanking
Data retention	> 10 years, EEPROM
Operation	5 keys
Operating temperature	-20 °C ... +65 °C [-4°F ... +149°F] (non-condensing)
Storage temperature	-25 °C ... +75 °C [-13°F ... +167°F]
Relative humidity	93 % (non-condensing)
Altitude	up to 2000 m [6562']

Electrical characteristics	
Supply voltage	AC supply 100 ... 240 V AC / max. 9 VA 50 / 60 Hz, tolerance ± 10 % ext. fuse protection: T 0.1 A
	DC supply 10 ... 30 V DC / max. 3.8 W with galvanic isolation and reverse polarity protection ext. fuse protection: T 0.4 A
Mains hum suppression	50 Hz or 60 Hz programmable
Sensor supply voltage	AC supply 24 V DC ± 15 %, 30 mA 10 V DC ± 1 %, 30 mA
	DC supply 10 V DC ± 1 %, 30 mA
Device safety	designed to EN 61010 part 1 protection class 2 (front side) application area pollution level 2 overvoltage category II

Mechanical characteristics	
Housing	Panel mount housing to DIN 43700 RAL 7021
Dimensions	96 x 48 x 102 mm [3.78 x 1.89 x 4.02"]
Panel cut-out	92 +0.8 x 45 +0.6 mm [3.62 +0.032 x 1.77 +0.024"]
Installation depth	approx. 92 mm [3.62"] incl. terminals
Weight	approx. 180 g [6.34 oz] with analog output 200 g [7.06 oz]
Protection	IP65 (front side)
Housing material	Polycarbonate UL94 V-2
Vibration resistance acc. to EN 60068-2-6	10 - 55 Hz / 1 mm / XYZ 30 min in each direction
Shock resistance acc. to EN 60068-2-27	100 G / 2 ms / XYZ 3 times in each direction
acc. to EN 60068-2-29	10 G / 6 ms / XYZ 2000 times in each direction
Connections supply voltage and output	Plug-in screw terminal, 8-pin, RM 5.00, core $\varnothing$ max. 2.5 mm ² [AWG 13]
Connections signal and control inputs	Plug-in screw terminal, 9-pin, RM 3.50, core $\varnothing$ max. 1.5 mm ² [AWG 15]

Control inputs MPI 1 / MPI 2	
Quantity	2 optocouplers
Function	programmable
Switching levels	LOW < 2 V HIGH > 4 V (max. 30 V)
Pulse length	> 100 ms

Measuring signal inputs	
Sampling rate	10 readings/sec
Input resistance	1 M Ω
Max. measuring signal range	approx. ± 35 mV
Max. voltage	± 10 V
Sensitivity ranges: 3.3 – 3.0 – 2.0 mV / V	
Resolution	± 15 bit
Measuring accuracy at 23 °C (% of range)	typ. 0.05 % / max. ≤ 0.1 %
Temperature drift	< 100 ppm/K _{Ambient}
Sensitivity ranges: 1.5 – 1.0 mV / V	
Resolution	± 14 bit
Measuring accuracy at 23 °C (% of range)	typ. 0.1 % / max. ≤ 0.2 %
Temperature drift	< 100 ppm/K _{Ambient}

Analog output (optional - only for DC version)	
Output ranges	0 (4) ... 20 mA / 0 (2) ... 10 V
Load	current output $\leq 500 \Omega$ voltage output $\geq 2000 \Omega$
Resolution	15 bit
Update time	100 ms (basic device measuring rate)
Temperature drift	≤ 100 ppm/K _{Ambient}
Accuracy	± 0.1 % of the output range high value
Output ripple	≤ 10 mV
Isolation voltage	500 V AC for 1 minute or 1 kV DC for 1 second

Alarm outputs	
Relays	changeover contacts
Switching voltage	max. 250 V AC / 125 V DC min. 5 V AC / 5 V DC
Switching current	max. 5 A AC / 5 A DC min. 10 mA DC
Switching capacity	max. 1250 VA / 150 W
Pull-in time	approx. 10 ms

Approvals	
UL compliant in accordance with	File no. E128604
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU

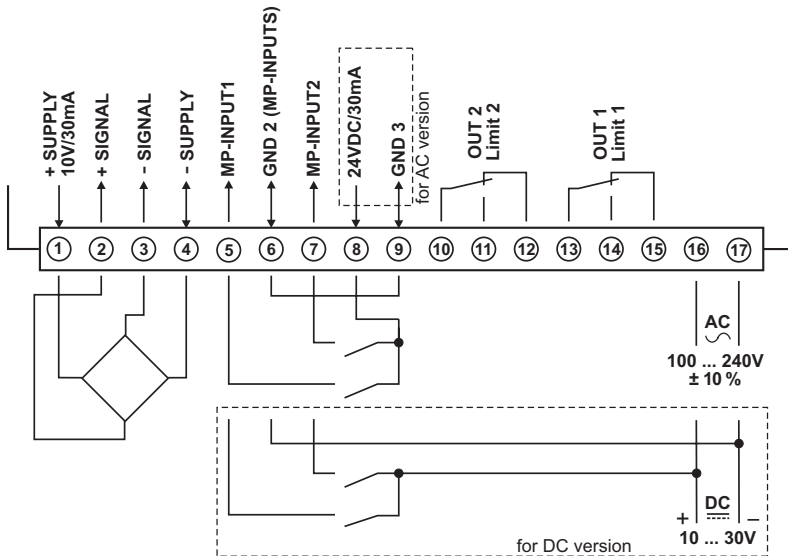
Strain-gauge controllers

LED strain-gauge controllers

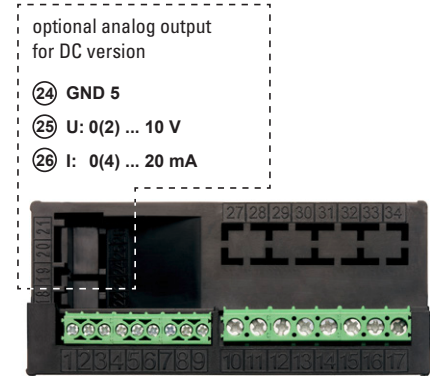
For strain-gauge inputs (AC+DC)

Codix 566

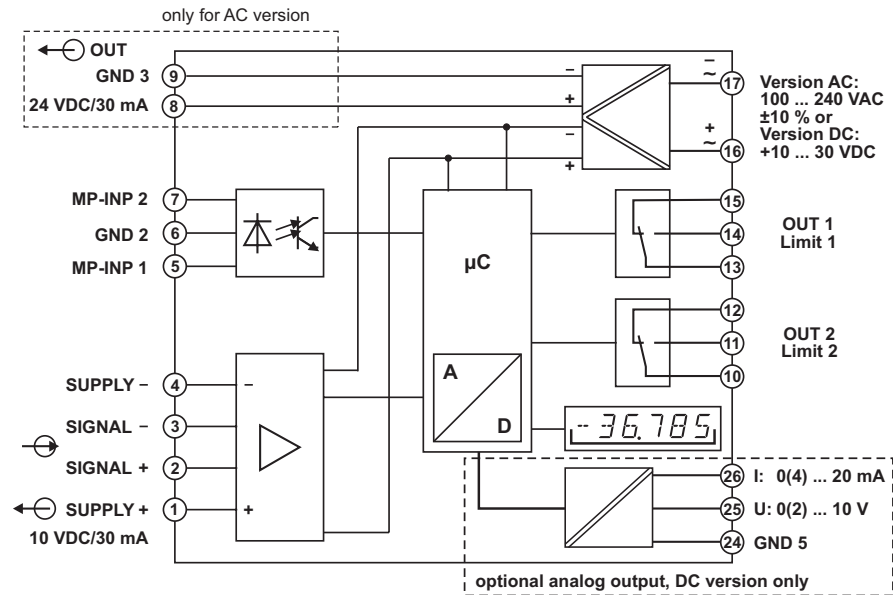
Terminal assignment



Rear side view



Block diagram



Strain-gauge controllers

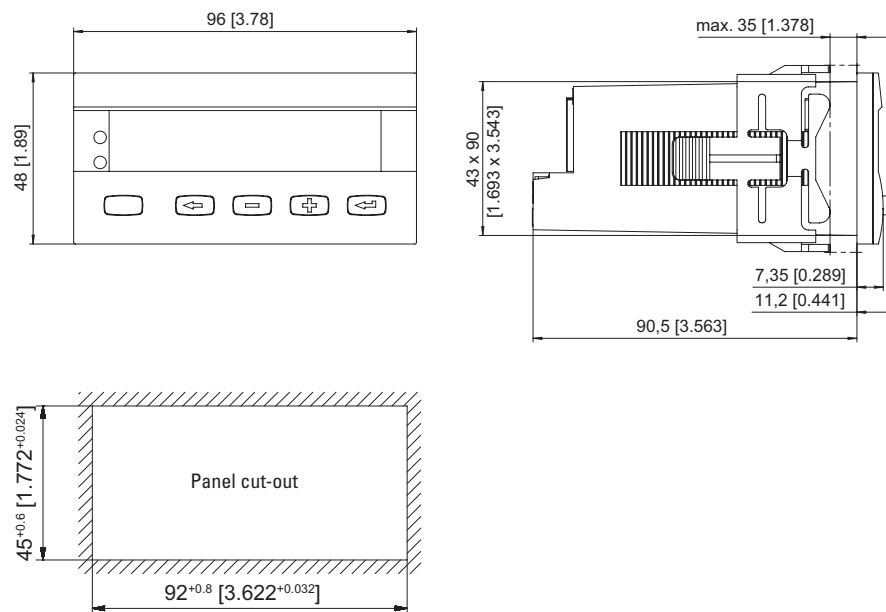
LED strain-gauge controllers

For strain-gauge inputs (AC+DC)

Codix 566

Dimensions

Dimensions in mm [inch]



Process controllers

LCD touch process controllers

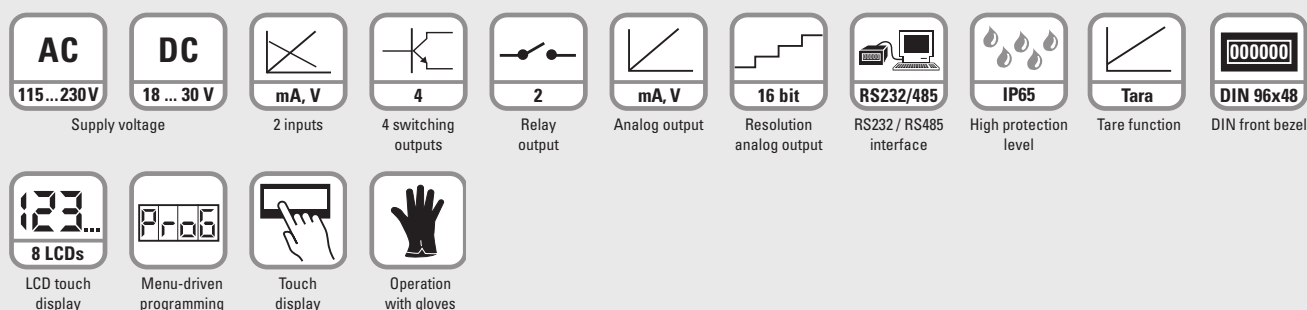
2 standard signal inputs + analog and switching outputs

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.



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.

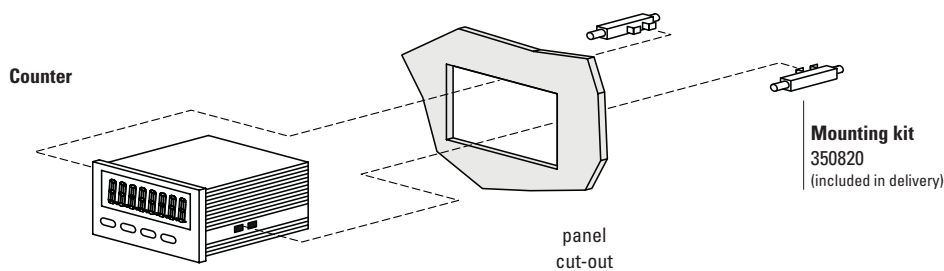


Process controllers

LCD touch process controllers	2 standard signal inputs + analog and switching outputs	573T
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Order code		6.573T	.	01	X	.	X	0	X	.	001
				a			b	c	d		e
a Relay outputs		d Electrical outputs		Delivery specification							
0 = 2 relay outputs		0 = none		· Display 573T							
2 = without output		1 = RS232, 4 switching outputs		· Gasket							
		2 = RS232, 4 switching outputs, 16 Bit analog output		· Mounting kit							
		3 = RS485, 4 switching outputs		· Manual German/English							
		4 = RS485, 4 switching outputs, 16 Bit analog output									
b Supply voltage											
3 = 18 ... 30 V DC											
E = 18 ... 30 V DC + 115 ... 230 V AC											
c Further options		e Option IO-Link									
0 = none		(without IO-Link, omit the last 3 digits)									
		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						
						incl. in delivery

Process controllers

LCD touch process controllers	2 standard signal inputs + analog and switching outputs	573T
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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

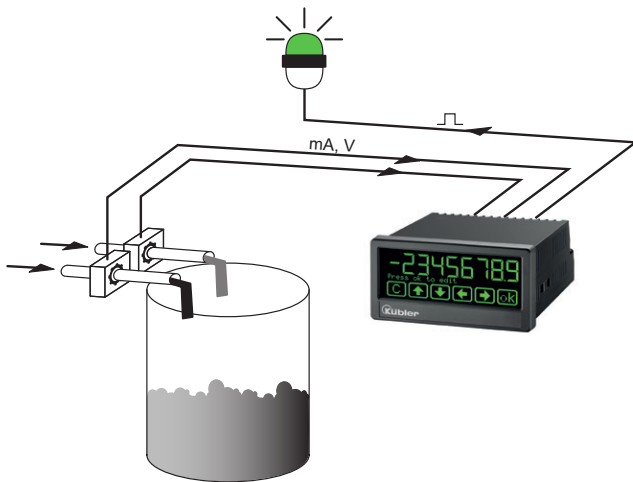
Process controllers

LCD touch process controllers

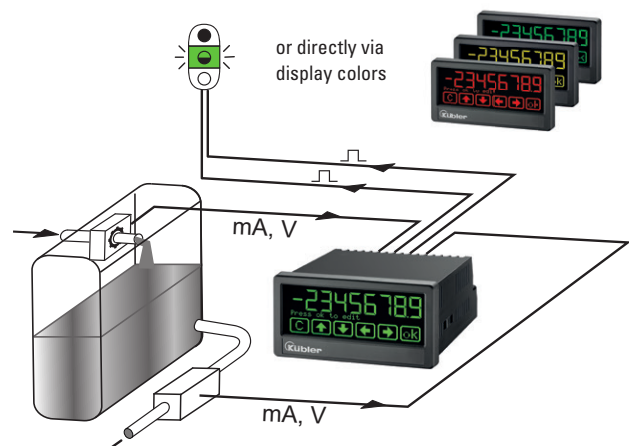
2 standard signal inputs + analog and switching outputs

573T

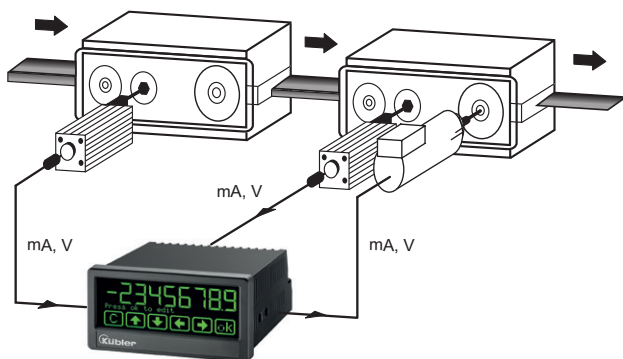
Application examples



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

Process controllers

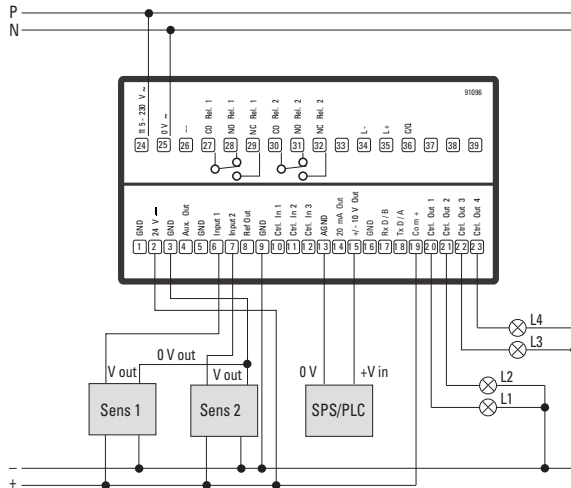
LCD touch process controllers

2 standard signal inputs + analog and switching outputs

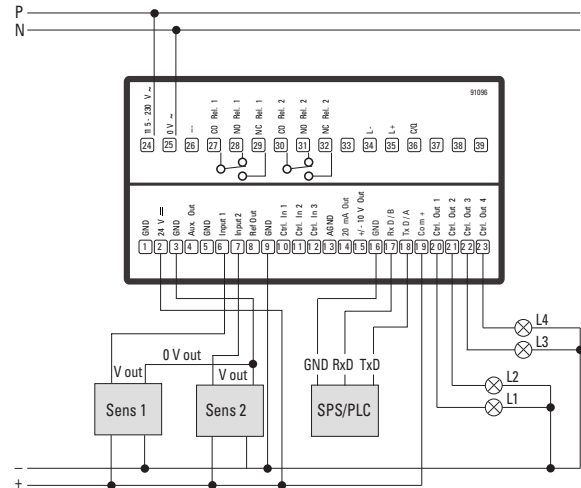
573T

Connection example

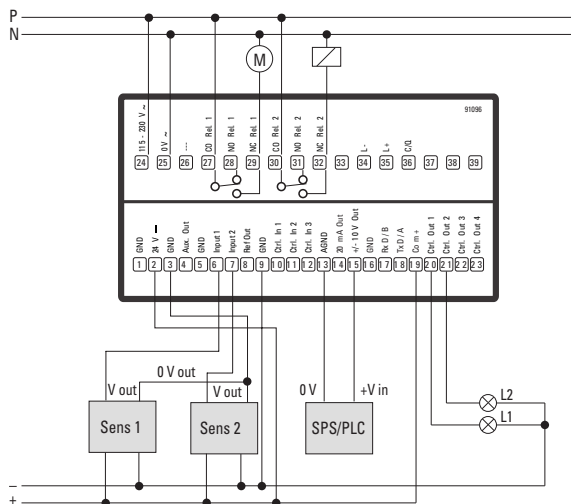
Analog input, analog output, switching outputs



Analog input, switching outputs, interface RS232



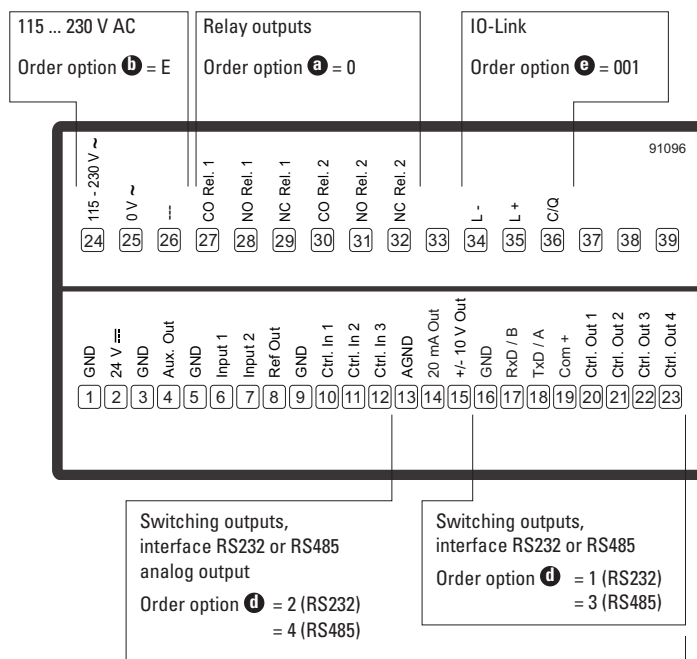
Analog input, analog output, load output (relay), switching outputs



Process controllers

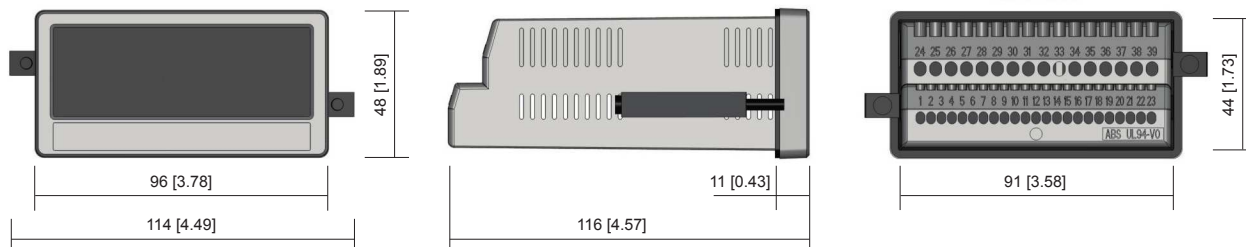
LCD touch process controllers	2 standard signal inputs + analog and switching outputs	573T
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Terminal assignment



Dimensions

Dimensions in mm [inch]



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

Process controllers

LED process controllers

For standard signal inputs (AC+DC)

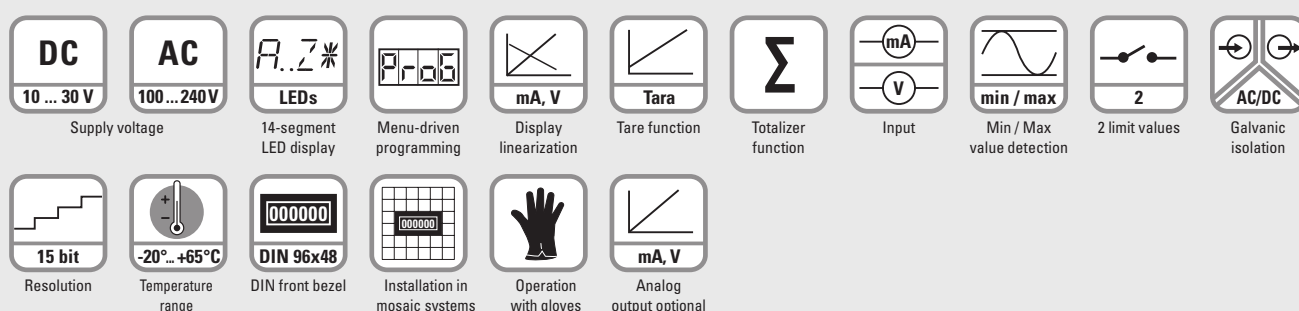
Codix 565



The process controller Codix 565 with totalizer function displays V and mA standard signal inputs in high resolution. In addition it can monitor and control 2 limit values.

These fast displays set new standards when it comes to user friendliness. Their easy-to-read 14-segment LED display, easy-to-understand running help texts and a practical quick-start guide eliminate the need to wade through time-consuming full instruction manuals.

With optional analog output.



User-friendly

- Practical quick-start guide for setting the parameters and operating the device.
- Help text as running text.
- Easy-to-read 14-segment LED display, 6 digits 14 mm [0.55] high.
- Simple programming via 4 keys on the front.
- One front key as well as 2 additional inputs can be programmed for specific applications.
- Customer-specific characteristic (linearization) curve via 12 control points for all measurement signal inputs.
- MIN/MAX memory function, individually resettable.

Powerful

- Sampling rate of 10 readings per second.
- Time-controlled totalizer function for totalizing the measured values. Can be reset separately.
- 2 relay outputs (changeover contacts) for limit monitoring with hysteresis and ON/OFF delay function for current measured or totalizer values.
- Analog output for the current measured value, MIN-value, MAX-value or totalizer value.
- Auxiliary sensor supply voltage 15 V DC / 25 mA, also for 2-wire transmitters.
- Inputs and outputs galvanically isolated.
- Digital filter (first-order) for smoothing display fluctuation with unstable input signals.
- Tare function.

Order code

6.56 5 . 0 1 0 . X 0 X
a b c d

a Input type
5 = standard signal input

b Outputs
0 = relays

c Supply voltage
0 = 100 ... 240 V AC, $\pm 10\%$
3 = 10 ... 30 V DC

d Further outputs (optional)
0 = none
9 = analog output
(only for DC version)

Delivery specification:

- Process device
- Mounting clip
- Gasket
- Instruction manual, multilingual
- 1 sheet of self-adhesive symbols
- Quick-start guide

Practical quick-start guide for setting the parameters and operating the device.

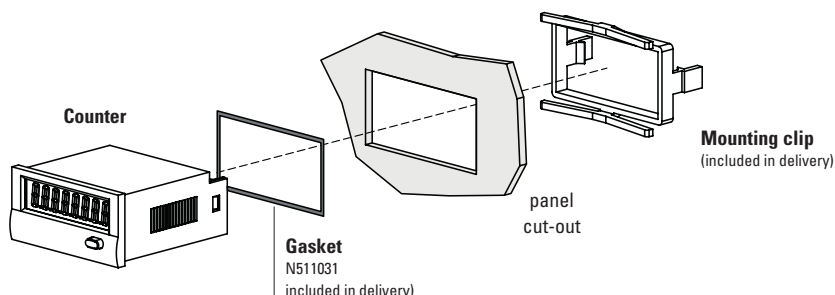
The guide can be affixed directly to the front of the unit and can be removed and re-applied as required.



Process controllers

LED process controllers	For standard signal inputs (AC+DC)	Codix 565
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Accessories / Mounting examples



		Type / size	Description		Order no.	
Gasket counter			96 x 49 mm [3.78 x 1.93"]		N511031	
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	—
Screw terminal (Replacement part)			1 ... 7, pitch 3.81 1 ... 2, pitch 5.08	7 pin 2 pin	N100387 N100133	
						incl. in delivery

Technical data

General technical data	
Display	6-digit, 14 segment LED
Digit height	14 mm [0.55"]
Display range	-199999 ... 999999, with leading zero blanking
Data retention	> 10 years, EEPROM
Operation	5 keys
Operating temperature	-20 °C ... +65 °C [-4°F ... +149°F] (non-condensing)
Storage temperature	-25 °C ... +75 °C [-13°F ... +167°F]
Relative humidity	93 % (non-condensing)
Altitude	up to 2000 m [6562']

Electrical characteristics	
Supply voltage	AC supply 100 ... 240 V AC / max. 9 VA 50 / 60 Hz, tolerance ±10% ext. fuse protection: T 0.1 A
	DC supply 10 ... 30 V DC / max. 3.8 W with galvanic isolation and reverse polarity protection ext. fuse protection: T 0.4 A
Mains hum suppression	50 Hz or 60 Hz, programmable
Sensor supply voltage	AC supply 24 V DC ±15 %, 30 mA
	DC supply 15 V DC ±1 %, 25 mA
Device safety	designed to EN 61010 part 1 protection class 2 (front side) application area pollution level 2 overvoltage category II

Mechanical characteristics	
Housing	Panel mount housing to DIN 43700, RAL 7021
Dimensions	96 x 48 x 102 mm [3.78 x 1.89 x 4.02"]
Panel cut-out	92 +0.8 x 45 +0.6 mm [3.62 +0.032 x 1.77 +0.024"]
Installation depth	approx. 92 mm [3.62"] incl. terminals
Weight	approx. 180 g [6.34 oz] with analog output 200 g [7.06 oz]
Protection	IP65 (front side)
Housing material	Polycarbonate UL94 V-2
Vibration resistance acc. to EN 60068-2-6	10 ... 55 Hz / 1 mm / XYZ 30 min in each direction
Shock resistance acc. to EN 60068-2-27	100G / 2 ms / XYZ 3 times in each direction
	acc. to EN 60068-2-29 10G / 6 ms / XYZ 2000 times in each direction
Connections supply voltage and outputs	Plug-in screw terminal, 8-pin, RM 5.00, core ø max. 2.5 mm² [AWG 13]
Connections signal and control inputs	Plug-in screw terminal, 9-pin, RM 3.50, core ø max. 1.5 mm² [AWG 15]

Process controllers

LED process controllers	For standard signal inputs (AC+DC)	Codix 565
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Measuring signal inputs	
Sampling rate	10 readings/sec
Voltage input	
Input signal	0 ... 10 V, 2 ... 10 V, ± 10 V
Measuring range	-10.5 ... +10.5 V
Resolution	< 0.4 mV (± 15 bit)
Measuring accuracy at 23 °C [73°F] (% of range)	typ. 0.02 % / max. ≤ 0.05 %
Temperature drift	< 100 ppm/K _{Ambient}
Input resistance	1 M Ω
Max. voltage	± 30 V
Current input	
Input signal	0 ... 20 mA, 4 ... 20 mA
Measuring range	-0.5 ... 21 mA
Resolution	1 μ A (> 14 bit)
Measuring accuracy at 23 °C [73°F] (% of range)	typ. 0.02 % / max. ≤ 0.05 %
Temperature drift	< 100 ppm/K _{Ambient}
Input resistance	22 Ω + PTC 25 Ω
Voltage drop	approx. 1.8 V at 20 mA
Max. current	60 mA

Control inputs MPI 1 / MPI 2	
Quantity	2 optocouplers
Function	programmable
Switching levels	LOW < 2 V HIGH > 4 V (max. 30 V)
Pulse length	> 100 ms

Analog output (optional - only for DC version)	
Output ranges	0 (4) ... 20 mA / 0 (2) ... 10 V
Load	current output ≤ 500 Ω voltage output ≥ 2000 Ω
Resolution	15 bit
Update time (basic device measuring rate)	100 ms
Temperature drift	≤ 100 ppm/K _{Ambient}
Accuracy	± 0.1 % of the output range high value
Output ripple	≤ 10 mV
Isolation voltage	500 V AC for 1 minute or 1 kV DC for 1 second

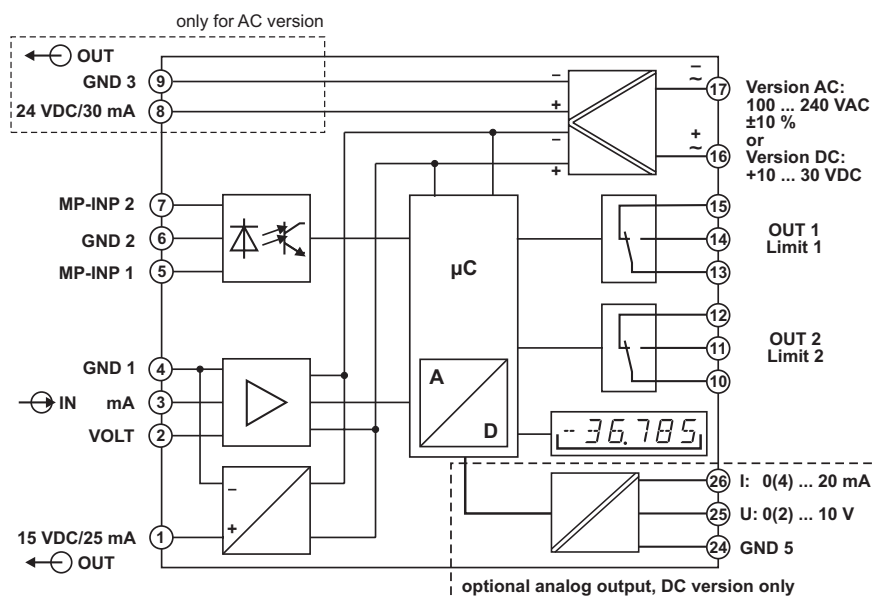
Alarm outputs	
Relays	changeover contacts
Switching voltage	max. 250 V AC / 125 V DC min. 5 V AC / 5 V DC
Switching current	max. 5 A AC / 5 A DC min. 10 mA DC
Switching capacity	max. 1250 VA / 150 W

Approvals	
UL compliant in accordance with	File no. E128604
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU

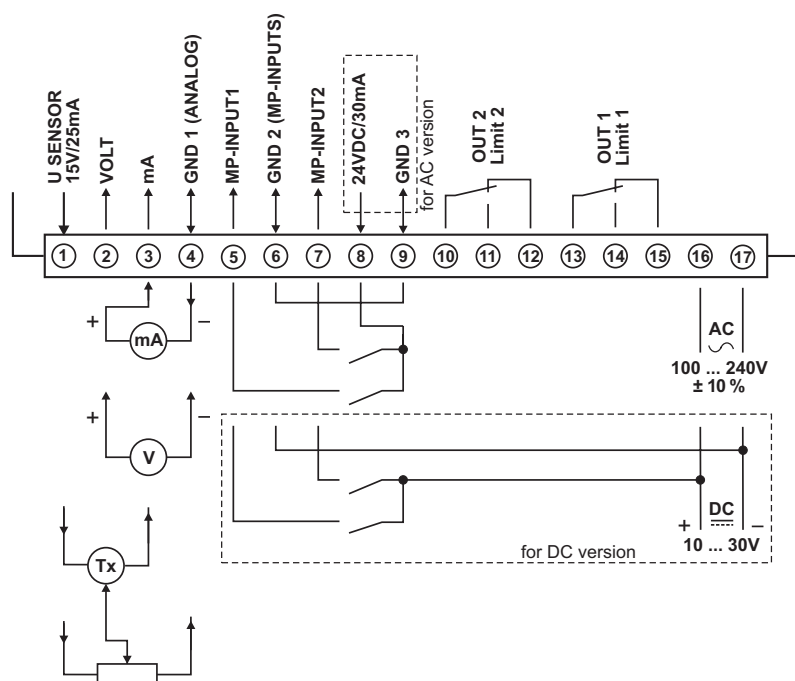
Process controllers

LED process controllers	For standard signal inputs (AC+DC)	Codix 565
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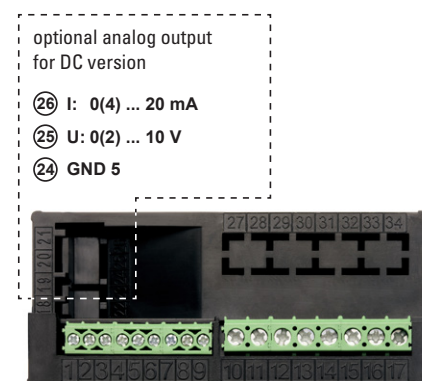
Block diagram



Terminal assignment



Rear side view



Process controllers

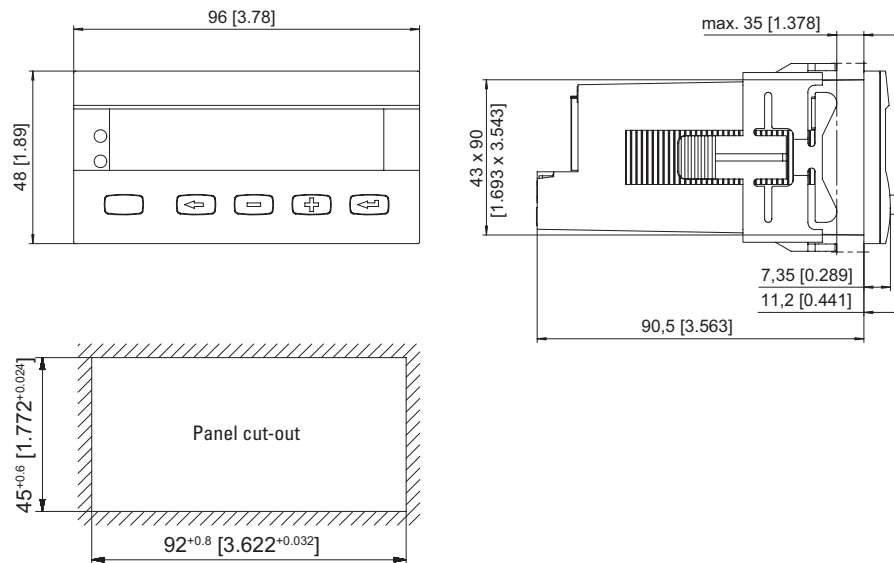
LED process controllers

For standard signal inputs (AC+DC)

Codix 565

Dimensions

Dimensions in mm [inch]





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Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: kgu@nt-rt.ru || сайт: <https://kubler.nt-rt.ru/>