Индикаторы температуры Codix 564, Codix 532, Codix 531

Технические характеристики

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Симферополь (3652)67-13-56
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Тула (4872)33-79-87
Тюмень (3452)66-21-18
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Улан-Удэ (3012)59-97-51
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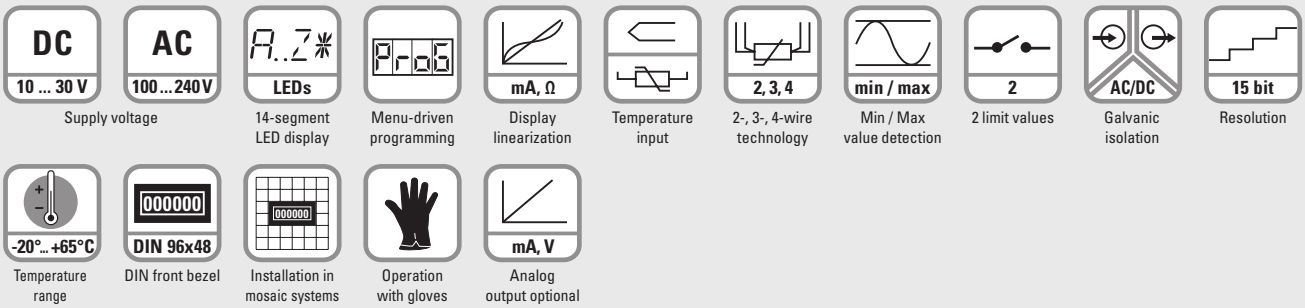
Temperature controllers

LED temperature controllers | For temperature sensors with limit value (AC+DC) | Codix 564

The temperature controller Codix 564 displays temperature values in high resolution. In addition it can monitor and control 2 limit values. All current temperature sensors, such as thermocouple types B, E, J, K, N, R, S and T, as well as mV inputs, Pt100 and resistance inputs, can be connected to the device.

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.
- Characteristic curves for thermocouples and RTD permanently stored.
- MIN/MAX memory function, individually resettable.

Powerful

- Sampling rate of 10 readings per second.
- Customized linearization via 12 control points.
- 2 relay outputs (changeover contacts) for limit monitoring with hysteresis and ON/OFF delay function.
- Analog output for the current measured value, MIN-value, MAX-value.
- Auxiliary sensor supply voltage with AC version.
- Inputs and outputs galvanically isolated.
- Digital filter (first-order) for smoothing display fluctuations with unstable input signals.

Order code

6.56	4	.	0	1	0	.	X	0	X
	a				b		c		d

a *Input type*
4 = Temperature signal input

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)

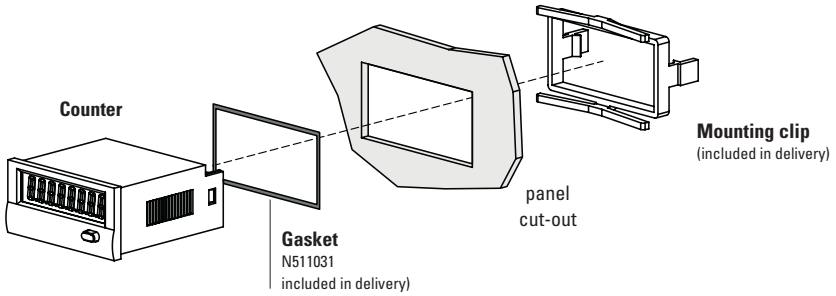
Delivery specification:
- Process device
- Mounting clip
- Gasket
- Instruction manual, multilingual
- 1 sheet of self-adhesive symbols
- Quick-start guide

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.

LED temperature controllers | For temperature sensors with limit value (AC+DC) | Codix 564

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	

LED temperature controllers | For temperature sensors with limit value (AC+DC) | Codix 564

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 (programmable)		50 Hz or 60 Hz
Sensor supply voltage	AC supply	24 V DC ±15 %, 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 outputs	Plug-in screw terminal, 8-pin, RM 5.00, core ø max. 2.5 mm² [AWG 13]
Signal and control inputs	Plug-in screw terminal, 9-pin, RM 3.50, core ø max. 1.5 mm² [AWG 15]

Measuring signal inputs

Sampling rate	10 readings/sec
Temperature drift	< 100 ppm/$K_{Ambient}$

Input Thermocouple

thermocouple:	range:	accuracy at 23 °C [73.4 °F]:
type B	+250 °C ... 1820 °C [+482 °F ... 3308 °F]	typ. 1.0 °C, max. 2.0 °C
E	-200 °C ... +1000 °C [-328 °F ... +1832 °F]	typ. 0.2 °C, max. 0.5 °C
J	-210 °C ... +1200 °C [-346 °F ... +2192 °F]	typ. 0.2 °C, max. 0.5 °C
K	-200 °C ... 499.9 °C [-328 °F ... +931,82 °F]	typ. 0.6 °C, max. 1.0 °C
	-500 °C ... +1372 °C [-868 °F ... 2502 °F]	typ. 0.3 °C, max. 0.5 °C
N	-200 °C ... +1300 °C [-328 °F ... 2372 °F]	typ. 0.3 °C, max. 0.7 °C
R	-50 °C ... +1768 °C [-58 °F ... +3214 °F]	typ. 1.0 °C, max. 2.0 °C
S	-50 °C ... +1768 °C [-58 °F ... +3214 °F]	typ. 1.0 °C, max. 2.0 °C
T	-200 °C ... +400 °C [-328 °F ... +752 °F]	typ. 0.2 °C, max. 0.5 °C

Resolution J, K, T, E, N	1 or 0.1 °C/°F
Resolution S, R, B	1 °C/°F
Reference point	internal or external constant
Reference point accuracy	≤ ±1 °C

Input mV

Measuring range	±105 mV (resolution ±15 bit)
Measuring accuracy at 23 °C [73.4 °F] (% of range)	typ. 0.02 / max. ≤ 0.05
Input resistance	> 2 MΩ

Input Pt100

Measuring range	-200 °C … +850 °C [-328 °F ... +1562 °F]
Resolution	1 or 0.1 °C / °F
Measuring accuracy at 23 °C [73.4 °F]	typ. 0.3 °C, max. ≤ 0.6 °C
Measuring current	200 µA
Connection	2-, 3-, 4-wire
Lead wire resistance	max. 25 Ω per wire

Input 500 Ω

Measuring range	0 ... 525 Ω (resolution ±15 bit)
Measuring accuracy at 23 °C [73.4 °F]	typ. 0.1 Ω, max. ≤ 0.2 Ω
Measuring current	200 µA
Connection	2-, 3-, 4-wire
Lead wire resistance	max. 25 Ω per wire

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

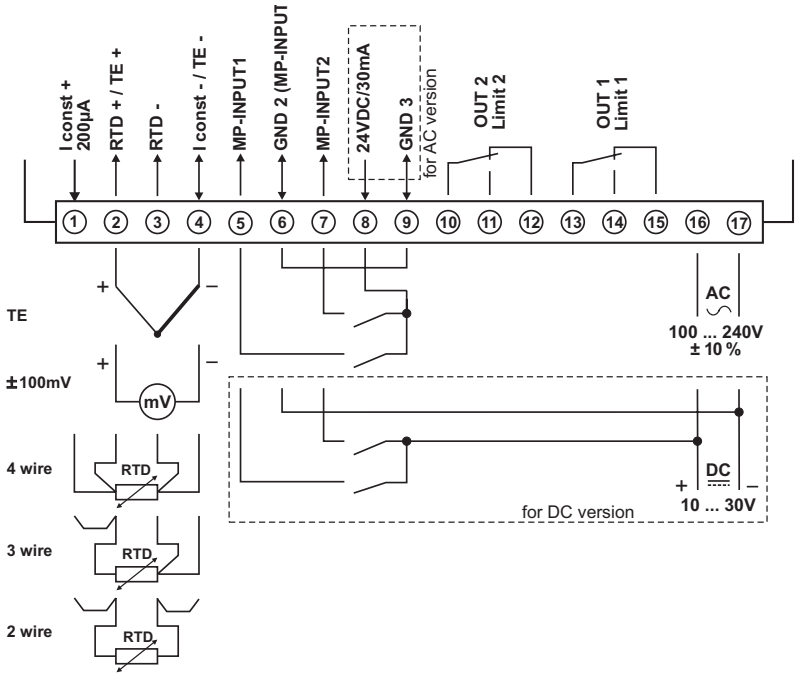
LED temperature controllers | For temperature sensors with limit value (AC+DC) | Codix 564

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

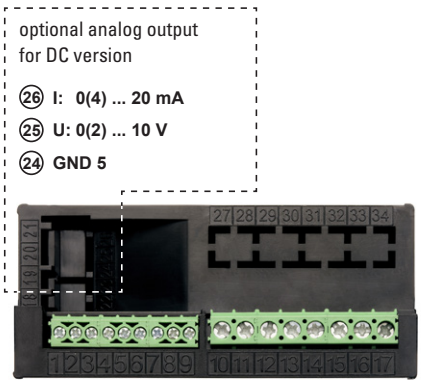
Analog output (optional - only for DC version)		
Output ranges		0 (4) ... 20 mA / 0 (2) ... 10 V
Load	current output voltage output	≤ 500 Ω ≥ 2000 Ω
Resolution		15 bit
Update time (basic device measuring rate)		100 ms
Temperature drift		≤ 100 ppm/$K_{Ambient}$
Accuracy		±0.1 % of the output range high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

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

Terminal assignment

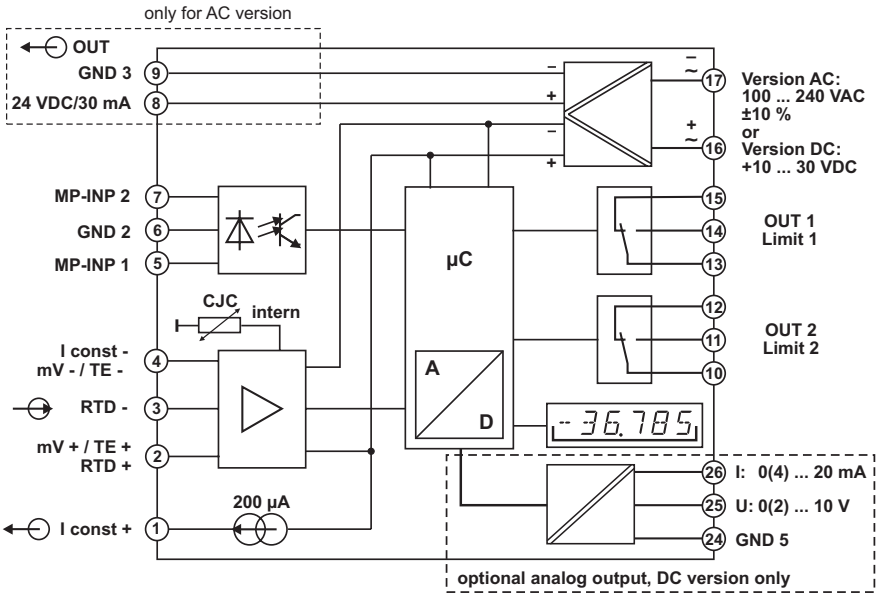


Rear side view



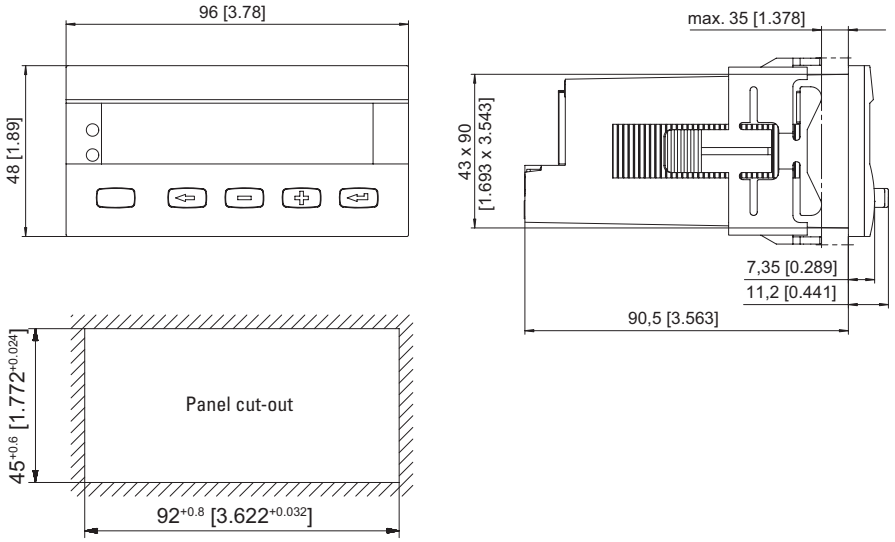
LED temperature controllers | For temperature sensors with limit value (AC+DC) | Codix 564

Block diagram



Dimensions

Dimensions in mm [inch]



Temperature displays

LED temperature displays | For thermocouple inputs J, K and N (DC) | Codix 532

Cost-effective temperature display for front panel mount with bright 5-digit LED display for values in °C or °F.

For very accurate temperature measurements using J, K or N thermocouples with permanently stored characteristic curves and selectable cold junction compensation.

Minimum and maximum value detection for temperature monitoring over long periods of time.

Product features

- Input ranges: J, K, N thermocouples with external or internal cold junction compensation.
- Compact and cost-effective temperature display.
- Easy programming and operation.
- Modern industrial design.
- 5 measurements / second.

Benefits

- Temperature display in °C or °F.
- MIN/MAX value acquisition and data backup in case of power off.
- Galvanic isolation with protection against incorrect polarity.
- Screw terminal connection: pitch 5 mm.
- Display hold input.

Order no.

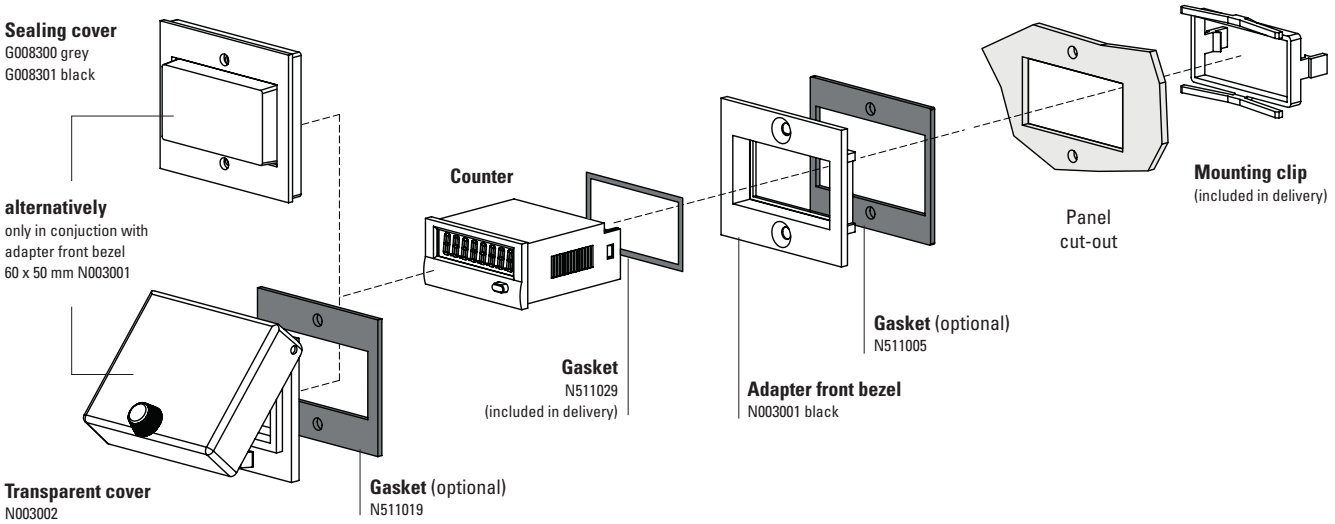
Temperature display for J, K and N thermocouplers	**6.532.012.300**

Delivery specification

- Digital display
- Mounting clip
- Gasket
- Front bezel for screw mounting (T008181) 56 x 40 mm [2.20 x 1.57"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- Front bezel for clip mounting (T008180) 53 x 28 mm [2.09 x 1.10"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- 1 set of self-adhesive symbols
- Instruction manual, multilingual

LED temperature displays | For thermocouple inputs J, K and N (DC) | Codix 532

Accessories / Mounting examples



		Type / size	Description		Order no.	suitable gasket
Adapter front bezel		**53 x 28 mm [2.09 x 1.10"]**	for cut-out 50 x 25 mm [1.97 x 0.98"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black anthracite	**T008165** **T008180**	**N511015**
		**56 x 40 mm [2.20 x 1.57"]**	for cut-out 50 x 25 mm [1.97 x 0.98"] to cut-out 45 x 22.2 mm [1.77 x 0.94"] screw mounting	black anthracite	**T008161** **T008181**	**N511045**
		**72 x 36 mm [2.83 x 1.42"]**	for cut-out 68 x 33 mm [2.68 x 1.30"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black and silver anodised as set	**162704Set**	–
		**60 x 50 mm [2.36 x 1.97"]**	for cut-out 54 x 29 mm [2.13 x 1.14"] to cut-out 45 x 22.2 mm [1.77 x 0.94"] screw mounting	black	**N003001**	**N511005**
		**48 x 48 mm [1.89 x 1.89"]**	for cut-out 45 x 45 mm [1.77 x 1.77"] to cut-out 45 x 22.2 mm [1.77 x 0.94"]	black	**T008883**	–
Sealing cover IP65		**K1**	only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / grey transparent / black	**G008300** **G008301**	–
Transparent cover IP65		**1 Dv** (mounted on bezel)	cover lockable, for cut-out 54 x 29 mm [2.13 x 1.14"], only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / black	**N003002**	**N511019**
Gasket counter			48 x 24 mm (for installation in adapter front bezel) 49 x 25 mm		**N511029** **N511034**	
Mounting frame		**cut-out 50 x 25 mm [1.97 x 0.98"]**	via adapter T008180 for snap-on mounting on 35 mm [1.38"] top-hat DIN rail	chromated	**G300004**	–
Enclosure blind		**48 x 24 mm [1.89 x 0.94"]**	for cut-out 45 x 22.2 mm [1.77 x 0.94"] and cut-out 50 x 25 mm [1.97 x 0.98"]	anthracite	**G003836**	–

incl. in delivery

LED temperature displays | For thermocouple inputs J, K and N (DC) | Codix 532

Technical data

General technical data

Display	5 digits, red 7 segment LED display; 8 mm [0.32"] high
Display refresh	1 ... 2 times per second
Data backup	EEPROM
Operating temperature	-20 °C ... +65 °C [-4 °F ... +149 °F] (non-condensing)

Electrical characteristics

Supply voltage	10 ... 30 V DC, galvanically isolated with integrated reverse polarity protection
Current consumption	max. 40 mA

Mechanical characteristics

Housing	front panel mount 48 x 24 mm [1.89 x 0.94"] acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]
Connections	screw terminal, pitch 5.08 mm [2"] , 7 pin

Measuring signal inputs

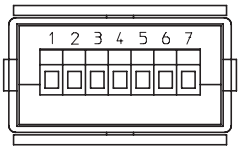
Measuring rate		5 measurements / second
Input		thermocouple sensor J (Fe-CuNi) K (Ni-CrNi) N (NiCrSi-NiSi) with sensor breakage monitoring
Temperature ranges (according to DIN IEC 584)	J (Fe-CuNi)	-210.0 °C ... +1200.0 °C [-346.0 °F ... +2192.0 °F]
	K (Ni-CrNi)	-200.0 °C ... +1372.0 °C [-328.0 °F ... +2501.6 °F]
	N (NiCrSi-NiSi)	-200.0 °C ... +1300.0 °C [-328.0 °F ... +2370.0 °F6
Resolution		0.1 °C (0.1 °F) or 1 °C (1 °F)
Linearity error		< 0.4 % for the whole measuring range at an operating temperature of 20 °C [68 °F]
Temperature drift		0.1 $K/K_{Ambient}$
Cold junction error		±1 °C typ. / ±3 °C max.
Control inputs	HIGH	4 ... 30 V DC
	LOW	0 ... 2 V DC

Approvals

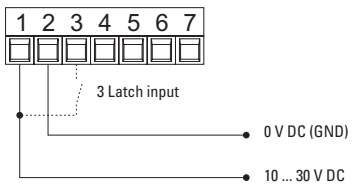
UL compliant in accordance with	File no. E128604
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU

Terminal assignment

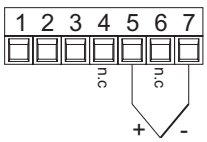
1	2	3	4	5	6	7
10 ... 30 V DC	0 V DC GND	Latch input	n.c.	Thermocouple +	n.c.	Thermocouple –



Connection supply voltage and latch input



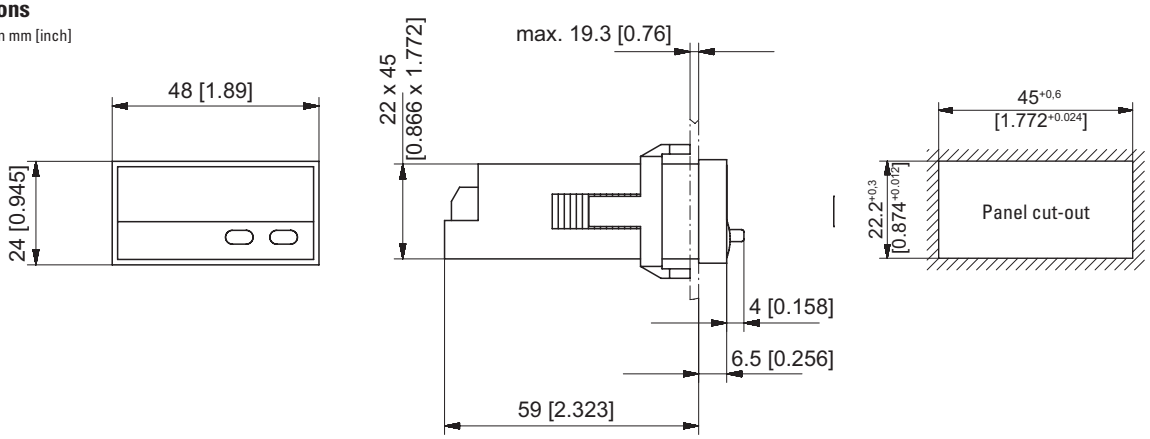
Connection thermocouple sensor



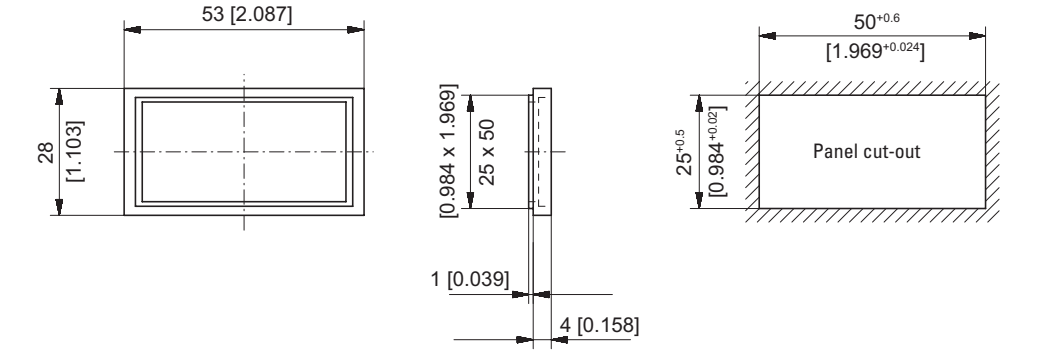
LED temperature displays | **For thermocouple inputs J, K and N (DC)** | **Codix 532**

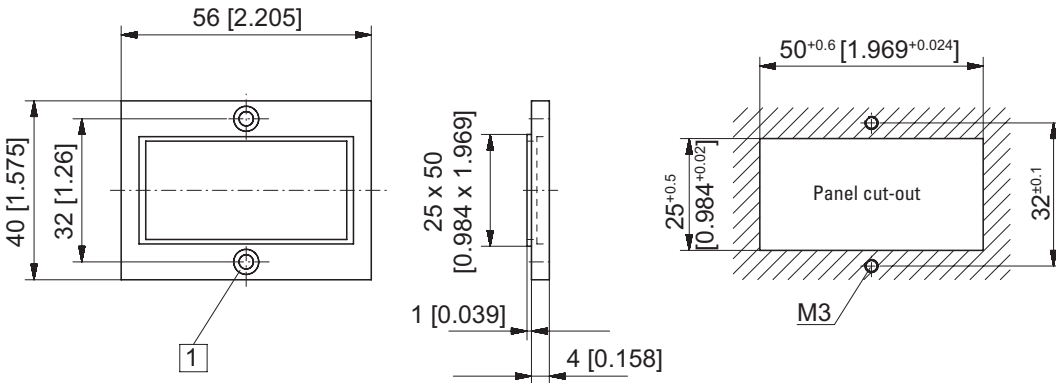
Dimensions

Dimensions in mm [inch]



Front bezel





1 Countersinking Af3, DIN 74

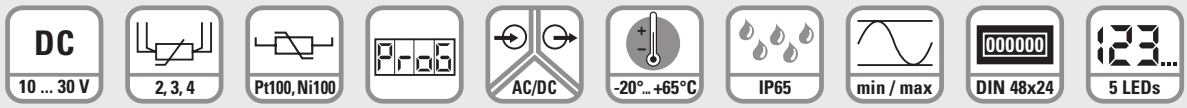
Temperature displays

LED temperature displays | Pt100 and Ni100 input (DC) | Codix 531

Cost-effective temperature display for front panel mount with bright 5-digit LED display for values in °C or °F.

For very accurate temperature measurements using Pt100 and Ni100 resistance thermometers in 2, 3 or 4-wire technology, with permanently stored characteristic curves.

Minimum and maximum value detection for temperature monitoring over long periods of time.



Product features

- Input range: resistance thermometer.
- Compact and low-price temperature display.
- Easy programming and operation.
- Modern industrial design.
- 5 measurements/second.

Benefits

- Temperature display in °C or °F.
- MIN/MAX value acquisition and data backup in case of power off.
- Galvanic isolation with protection against incorrect polarity.
- Screw terminal connection: pitch 5 mm.
- Display hold input.

Order no.

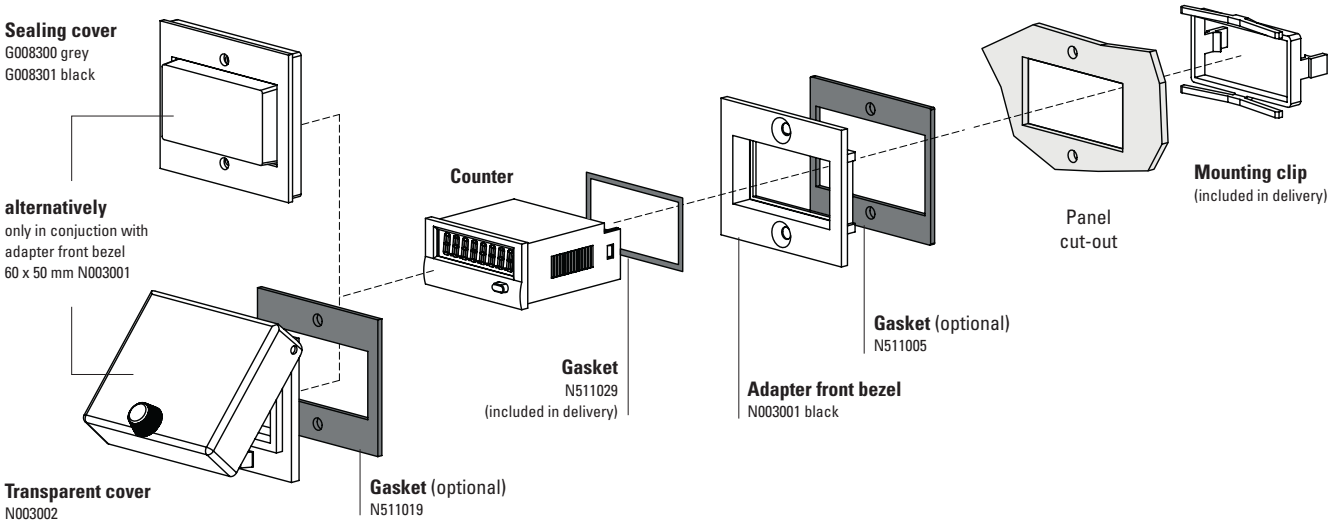
Temperature display for Pt100 and Ni100 resistance thermometer	**6.531.012.300**

Delivery specification

- Digital display
- Mounting clip
- Gasket
- Front bezel for screw mounting (T008181) 56 x 40 mm [2.20 x 1.57"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- Front bezel for clip mounting (T008180) 53 x 28 mm [2.09 x 1.10"], panel cut-out 50 x 25 mm [1.97 x 0.98"]
- 1 set of self-adhesive symbols
- Instruction manual, multilingual

LED temperature displays | Pt100 and Ni100 input (DC) | Codix 531

Accessories / Mounting examples



		Type / size	Description		Order no.	suitable gasket
Adapter front bezel		**53 x 28 mm [2.09 x 1.10“]**	for cut-out 50 x 25 mm [1.97 x 0.98“] to cut-out 45 x 22.2 mm [1.77 x 0.94“]	black anthracite	**T008165** **T008180**	**N511015**
		**56 x 40 mm [2.20 x 1.57“]**	for cut-out 50 x 25 mm [1.97 x 0.98“] to cut-out 45 x 22.2 mm [1.77 x 0.94“] screw mounting	black anthracite	**T008161** **T008181**	**N511045**
		**72 x 36 mm [2.83 x 1.42“]**	for cut-out 68 x 33 mm [2.68 x 1.30“] to cut-out 45 x 22.2 mm [1.77 x 0.94“]	black and silver anodised as set	**162704Set**	–
		**60 x 50 mm [2.36 x 1.97“]**	for cut-out 54 x 29 mm [2.13 x 1.14“] to cut-out 45 x 22.2 mm [1.77 x 0.94“] screw mounting	black	**N003001**	**N511005**
		**48 x 48 mm [1.89 x 1.89“]**	for cut-out 45 x 45 mm [1.77 x 1.77“] to cut-out 45 x 22.2 mm [1.77 x 0.94“]	black	**T008883**	–
Sealing cover IP65		**K1**	only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / grey transparent / black	**G008300** **G008301**	–
Transparent cover IP65		**1 Dv** (mounted on bezel)	cover lockable, for cut-out 54 x 29 mm [2.13 x 1.14“], only in conjuction with adapter front bezel 60 x 50 mm N003001	transparent / black	**N003002**	**N511019**
Gasket counter			48 x 24 mm (for installation in adapter front bezel) 49 x 25 mm		**N511029** **N511034**	
Mounting frame		**cut-out 50 x 25 mm [1.97 x 0.98“]**	via adapter T008180 for snap-on mounting on 35 mm [1.38“] top-hat DIN rail	chromated	**G300004**	–
Enclosure blind		**48 x 24 mm [1.89 x 0.94“]**	for cut-out 45 x 22.2 mm [1.77 x 0.94“] and cut-out 50 x 25 mm [1.97 x 0.98“]	anthracite	**G003836**	–

incl. in delivery

LED temperature displays | Pt100 and Ni100 input (DC) | Codix 531

Technical data

General technical data

Display	5 digits, red 7 segment LED display; 8 mm [0.32"] high
Display refresh	1 ... 2 times per second
Data backup	EEPROM
Operating temperature	-20 °C ... +65 °C [-4 °F ... +149 °F] (non-condensing)

Electrical characteristics

Supply voltage	10 ... 30 V DC, galvanically isolated with integrated reverse polarity protection
Current consumption	max. 40 mA
Circuit type	2-wire, 3-wire and 4-wire technology, programmable

Mechanical characteristics

Housing	front panel mount 48 x 24 mm [1.89 x 0.94"] acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g [1.76 oz]
Connections	screw terminal, pitch 5.08 mm [2"] , 7 pin

Measuring signal inputs

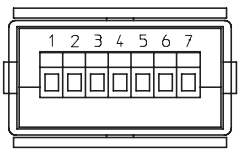
Measuring rate		5 measurements / second
Input		Pt100 resistance thermometer Ni100 resistance thermometer with sensor breakage monitoring
Control inputs	HIGH LOW	4 ... 30 V DC 0 ... 2 V DC
Supply current		1 mA
Supply line	2-wire 3-wire, 4-wire	max. 20 Ω, programmable max. 20 Ω, no balancing required
Temperature ranges		
	Pt100 acc. to DIN IEC 751	-199.9 °C ... +850.0 °C [-327.8 °F ... +1562.0 °F]
	Ni100 acc. to DIN 43760	-60.0 °C ... +250.0 °C [-76.0 °F ... +482.0 °F]
Resolution		0.1 °C (0.1 °F) or 1 °C (1 °F)
Linearity error	Pt100 Ni100	< 0.1 % for the whole measuring range at an operating temperature of 20 °C [68 °F] < 0.2 %for the whole measuring range at an operating temperature of 20 °C [68 °F]
Temperature drift		0.1 $K/K_{Ambient}$

Approvals

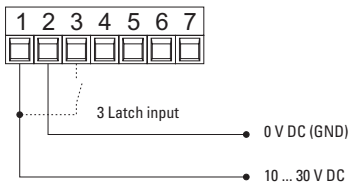
UL compliant in accordance with	File no. E128604
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU

Terminal assignment

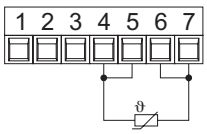
1	2	3	4	5	6	7
10 ... 30 V DC	0 V DC (GND)	Latch input	Pt100/Ni100	Pt100/Ni100	Pt100/Ni100	Pt100/Ni100



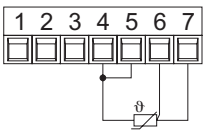
Connection supply voltage and latch input



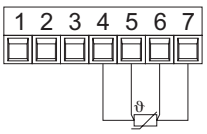
Connection resistance thermometer Pt100/Ni100



2-wire resistance thermometer



3-wire resistance thermometer

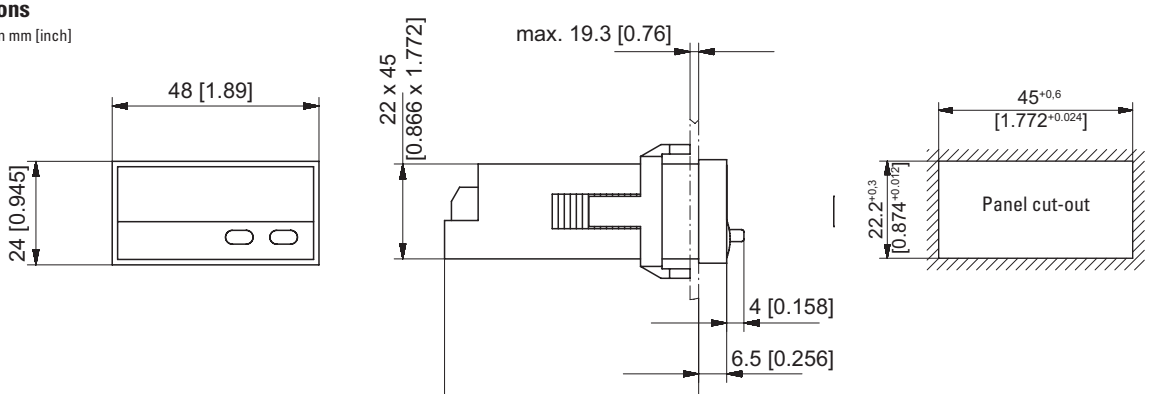


4-wire resistance thermometer

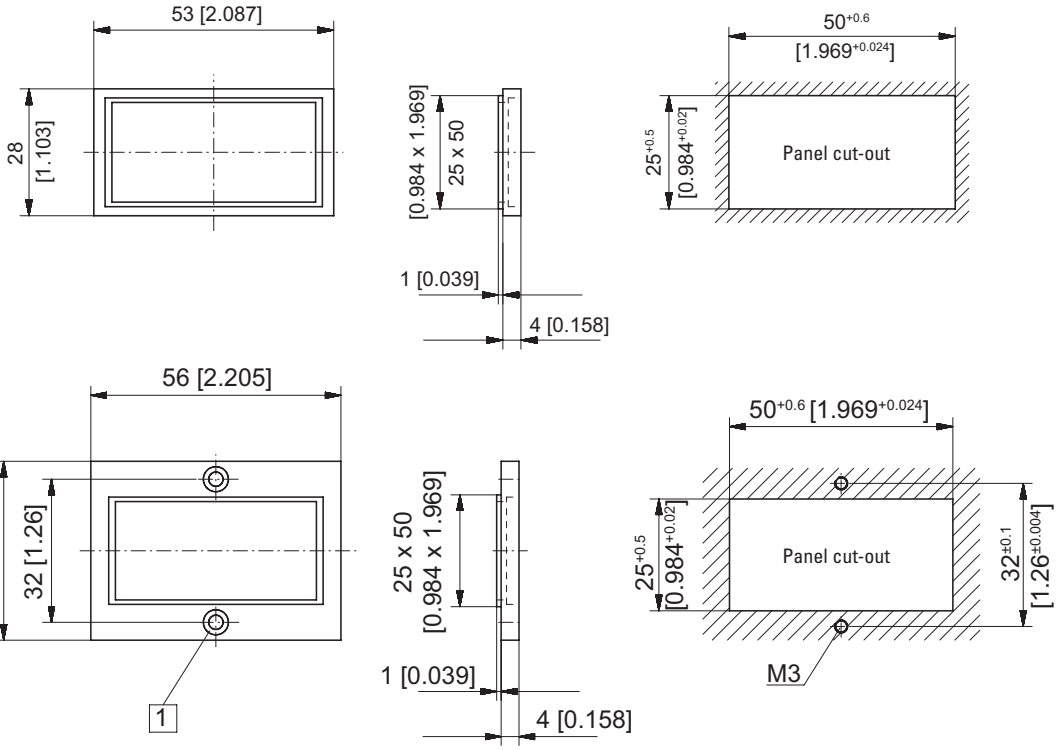
LED temperature displays	Pt100 and Ni100 input (DC)	Codix 531

Dimensions

Dimensions in mm [inch]



Front bezel



1 Countersinking Af3, DIN 74

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