Temperature displays

Kübler

| 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.

c **RU** us   (RoHS)

DC 10 ... 30 V		**PrdG**			**IP65**	**min / max**	**000000** DIN 48 x 24	**123...** 5 LED
Power supply	J, K, N thermocouples	Menu-driven programming	Galvanic isolation AC/DC	Temperature range - 20° + 65°	High protection level	Min / Max value detection	DIN front bezel	LED display
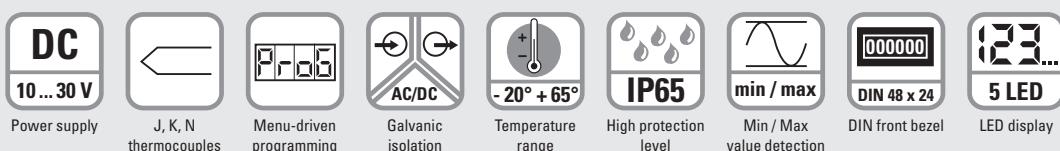
Product features

- 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 specifications

| Temperature display for J, K and N thermocouplers | **6.532.012.300** [1] | *Delivery specification*
– Digital display
– Mounting clip
– Gasket
– Instruction manual, multilingual
– 1 set of self-adhesive symbols | – 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"] |

Accessories	Dimensions in mm [inch]		Order-No.
Adapter front bezel, 72 x 36 [2.83 x 1.42]	For cut-out 68 x 33 [2.68 x 1.30] to cut-out 45 x 22.2 [1.77 x 0.87], for counters 48 x 24 [1.89 x 0.94], as set	black and silver anodised	**162704 Set**
Adapter front bezel, 48 x 48 [1.89 x 1.89]	For cut-out 45 x 45 [1.77 x 1.77] to cut-out 45 x 22.2 [1.77 x 0.87], with clip mounting for counters 48 x 24 [1.89 x 0.94]	black	**T008883**
Adapter front bezel, 60 x 50 [2.36 x 1.97]	For cut-out 54 x 29 [2.13 x 1.14] to cut-out 45 x 22.2 [1.77 x 0.87], with screw mounting and gasket for counters 48 x 24 [1.89 x 0.94]	black	**N003001**
Transparent cover, lockable, IP65	For cut-out 54 x 29 [2.13 x 1.14], for screw mounting to front bezel F1B or adapter front bezel N003001, for counters with cut-out 50 x 25 [1.97 x 0.98] or 45 x 22.2 [1.77 x 0.87]		**N003002**
Sealing cover type K1, IP65	Suitable for front bezel 60 x 50 [2.36 x 1.97], for screw mounting of electromech. counters and via adapter front bezel N003001 for counters 48 x 24 [1.89 x 0.94]		**G008301**
Mounting frame with cut-out 50 x 25 [2.36 x 1.97] via separate adapter also for 45 x 22.2 [1.77 x 0.87]	For snap-on mounting on 35 [1.38] top-hat DIN rail, for counters 53 x 28 [2.09 x 1.10] and via separate adapter (T008180) for counters 48 x 24 [1.89 x 0.94]	chromated	**G300004**

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.

1) Stock types

Temperature devices

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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

Power supply		10...30 V DC, galvanically isolated with integrated reverse polarity protection
Current consumption		max. 40 mA
EMC	Emitted interference	EN 55011 class B
	Immunity to interference	EN 61000-6-2

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

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 **—**
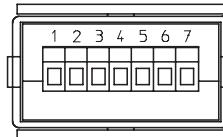
Connection power supply and latch input

3 Latch input

0 V DC (GND)

10 ... 30 V DC
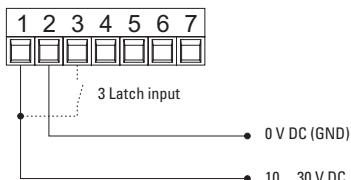
Connection thermocouple sensor
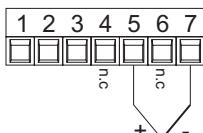
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Dimensions

Dimensions in mm [inch]

48 [1.89]

24 [0.945]

22 x 45 [0.866 x 1.772]

max. 19.3 [0.76]

4 [0.158]

6.5 [0.256]

59 [2.323]

45$^{+0,6}$ [1.772$^{+0.024}$]

Panel cut-out

22.2$^{+0,3}$ [0.874$^{+0.02}$]

Frontbezel

53 [2.087]

28 [1.103]

25 x 50 [0.984 x 1.969]

1 [0.039]

4 [0.158]

50$^{+0.6}$ [1.969$^{+0.024}$]

Panel cut-out

25$^{+0.5}$ [0.984$^{+0.02}$]

56 [2.205]

40 [1.575]

32 [1.26]

25 x 50 [0.984 x 1.969]

1 [0.039]

4 [0.158]

50$^{+0.6}$ [1.969$^{+0.024}$]

Panel cut-out

25$^{+0.5}$ [0.984$^{+0.02}$]

32$^{±0.1}$

M3
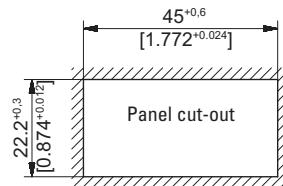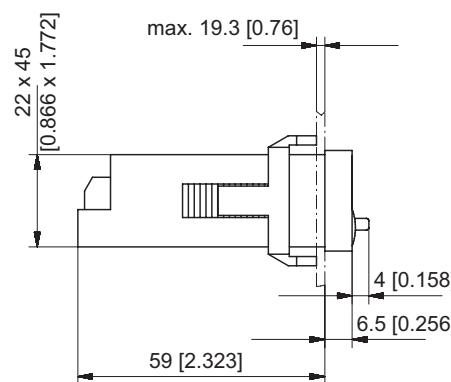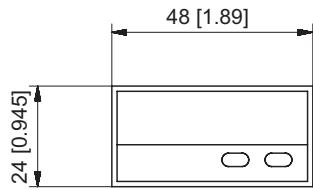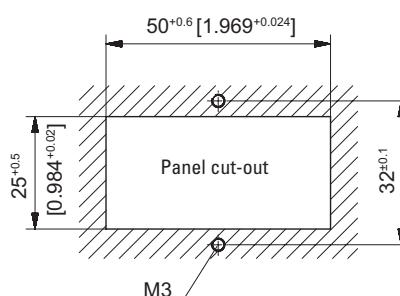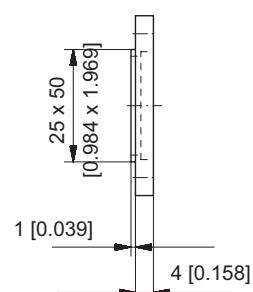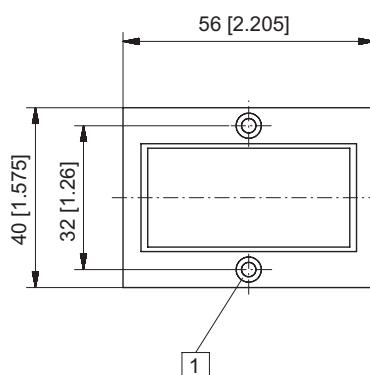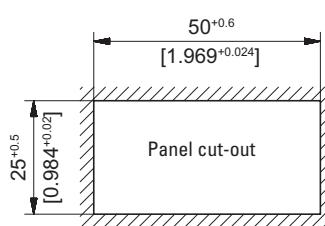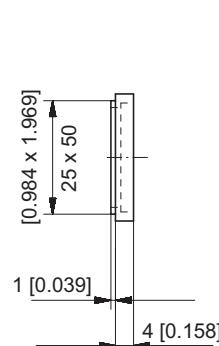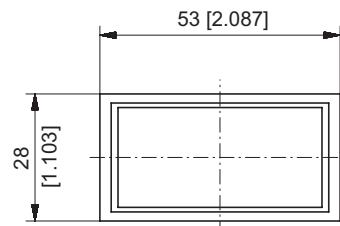
1 Countersinking Af3, DIN 74

Temperature devices

Dimensions in mm [inch]