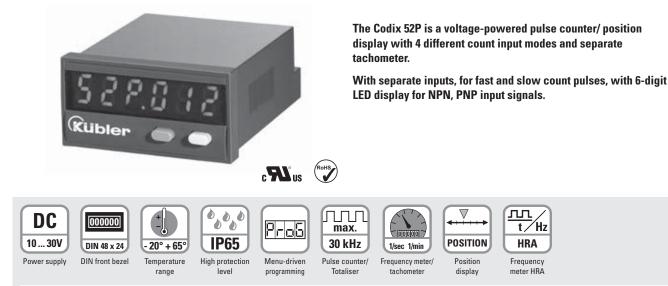


Multifunction devices, electronic

LED dual function displays

6 count modes with tachometer (DC)

Codix 52P



Powerful

- Fast count and frequency input input frequency max. 30 kHz
- Robust housing IP65 protected
- Very bright LED display, 8 mm high, 6 digits
- Very accurate precise frequency measurement principle (HRA-High Rate Accuracy System)
 Frequencies up to 38 Hz are calculated using time-interval (period duration) measurement. Frequencies > 38 Hz are calculated using a special time base (gate time) measurement. A very high accuracy of < 0.1% is achieved, even with very short gate times. The resulting measurement is available after a max. of 50 ms.
- Short start-up time detects input pulses just 16 msec after being switched on => no pulses are lost with a simultaneous motor start-up

User-friendly and universal

- Large keys can also be operated when wearing gloves
- Programming:
 - Simple uniform menu-driven programming and operation
 Possible to enter the programming also during operation with a confirmation prompt
 - Pressing the right key switches between displays
- Individually programmable scaling: multiplication and division factor (0.0001...99.9999), to display corresponding engineering units, e.g. position in 1/10 mm and speed in RPM
- · Separate factors for frequency- and pulse counting
- 4 different count input modes for the position display:
 2-channel input for detecting count direction, difference or adding mode, quadrature x1, x2 or x4. 1 separate input for rotary speed and speed, display in 1/min or 1/sec
- Inputs: as an alternative to the HTL inputs, devices are available with a 4... 30 V DC input level, for use as parallel displays to PLCs

Order code

6.52P . 01 2 . 3 X 0

- a Input switching level
- $0 = \text{Standard (HTL)}^{1}$
- A = 4 ... 30 V DC

- Delivery specification
- Digital counter
- Mounting clip
- Gasket
- Instruction manual, multilingual
- Front bezel for screw mounting (T008181)
 56 x 40 mm, panel cut-out 50 x 25 mm
- Front bezel for clip mounting (T008180)
 53 x 28 mm, panel cut-out 50 x 25 mm

Multifunction

devices

Kübler

Multifunction devices, electronic

LED dual function displays	6 count modes with tachometer (DC)	Cod	lix 52P
Accessories			Order-No.
Adapter front bezel, 72 x 36 mm	For cut-out 68 x 33 mm to cut-out 45 x 22.2 mm, for counters 48 x 24 mm, as set black and silve	er anodised	162704 Set
Adapter front bezel, 48 x 48 mm	For cut-out 45 x 45 mm to cut-out 45 x 22.2 mm, with clip mounting for counters 48 x 24 mm	black	T008883
Adapter front bezel, 60 x 50 mm	For cut-out 54 x 29 mm to cut-out 45 x 22.2 mm, with screw mounting and gasket for counters 48 x 24 mm	black	N003001
Transparent cover, lockable, IP65	For cut-out 54 x 29 mm, with screw mounting to front bezel F1B or adapter front bezel N003001, for counters with cut-out 50 x 25 mm or 45 x 22.2 mm		N003002
Sealing cover type K1, IP65	Suitable for front bezel 60 x 50 mm with screw mounting of electromechanical counters and via adapter front bezel N003001, for counters 48 x 24 mm		G008301
Mounting frame with cut-out 50 x 25 mm via separate adapter also for 45 x 22.2 mm	For snap-on mounting on 35 mm top-hat DIN rail, for counters 53 x 28 mm and via separate adapter (T008180) for counters 48 x 24 mm 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.

Display 6 digits, red 7 segment LED display; 8 mm high Data backup EEPROM Operating temperature 10 26 V DC > 26 30 V DC -20°C +65°C -20°C +55°C (non-condensing)	General technical data	
Operating temperature 10 26 V DC -20°C +65°C > 26 30 V DC -20°C +55°C	Display	0, 0
> 26 30 V DC -20°C +55°C	Data backup	EEPROM
(non conditionity)	Operating temperature	
Storage temperature -25°C +70°C	Storage temperature	-25°C +70°C

Electrical characte	ristics	
Power supply		1030 V DC, with reverse polarity protection
Current consumption		max. 40 mA
EMC	Emitted interference Immunity to interference	EN 55011 class B EN 61000-6-2

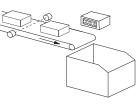
Inputs		
Polarity of inputs		programmable, NPN or PNP for all inputs
Input resistance		approx. 5 k Ω
Counting frequency ¹⁾		max. 30 kHz, can be damped to 30 Hz
Display range	tachometer	1/min or 1/sec
Minimum pulse duration of the re	eset input	5 ms
Input switching level (HTL)	LOW HIGH	0 0.2 x U _B [V DC] 0.6 x U _B 30 V DC
Input switching level at 4 30 V DC	LOW HIGH	0 2 V DC 4 30 V DC
Accuracy		< 0.1 % frequency meter, tachometer

Mechanical characteristics	
Housing	front panel mount 48 x 24 mm acc. to DIN 43700; RAL 7021, dark grey
Protection	IP65 (front side)
Weight	approx. 50 g

Applications for frequency and position display / totaliser

Position and rotary speed applications, e.g.

- OEM equipment or retrofitting to drilling machines
- OEM equipment on flow measuring plant, e.g. total flow and current flow
- Total piece count and pieces per minute, where the pulse counting occurs in the add/subtract mode, in order to deduct reject parts
- Production data acquisition: total piece count and production speed, or absolute distance traversed and current speed



Piece count on conveyor and production speed



Rotary speed and drilling

depth



Flow rate and total volume

1) Details see manual



Codix 52P

Multifunction devices, electronic

µ processor

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С

LED dual function displays 6 count modes with tachometer (DC) Block diagram Terminal assignment Power supply: 522012 10...30 V DC A

Keypad

PIN	DC version
1	10 30 V DC
2	0 V GND
3	INP A (count)
4	INP B (count)
5	INP C (frequency)

Function of the inputs INP A, INP B, INP C

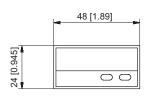
INP A and INP B:

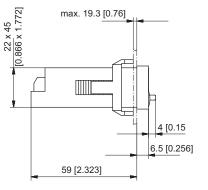
Two channel pulse input with 6 different count modes **INP C**:

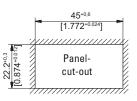
Frequency input, single channel

Dimensions

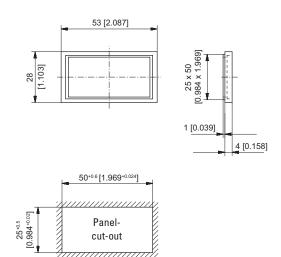
Count input



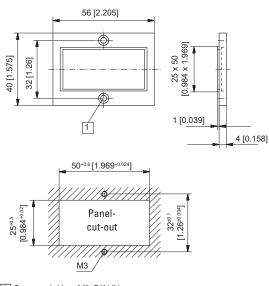




Front bezel for clip mounting (included in delivery)



Front bezel for screw mounting (included in delivery)



1 Countersinking Af3, DIN 74

Multifunction devices