

# LED Frequency Meters – Codix 542

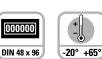
- Fast High Rate Accuracy System (HRA)
- Display scaleable 1/min or 1/sec

Front bezel

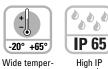
dimensions

AC/DC	
10 260V	

Power supply AC/DC



ature range



protection

rating



terminal



with gloves





meter/ Tachometer



Universal

- Individually programmable scaling Multiplication and division factor (0.0001 to 99.9999), to display corresponding engineering units, e.g. position in 1/10 mm and speed in RPM
- Programmable decimal point Can be set between 0.0 and 0.000 - this determines the resolution
- Programmable delay until 0 is displayed
- Display in 1/min or 1/sec
- AC or DC power supply
- Inputs

As an alternative to the HTL inputs, devices with a 4 ... 30 V DC input level are available, for use as parallel displays for PLCs

 Optional output For zero-speed monitoring

## Powerful

- Fast count input Input frequency max. 60 kHz
- Robust housing **IP 65 protection**
- LED display Very bright, 14 mm high
- 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.



programming

# **User-friendly**

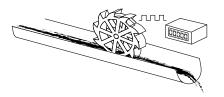
Big keys

Can also be operated when using gloves

 Easy to programme Easy menu-driven programming and operation Possibility to enter the programming mode during operation, with authentication query

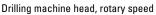
# **Applications for Speed and Frequency Displays**

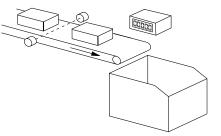
- Rotary speed applications, e.g. OEM equipment or retrofitting to drilling machines
- OEM equipment for flow rate measuring, e.g. current flow rate; production data such as volume/time
- Speed applications on motors, turbines, machines; feed-rate measurement
- Recording of production rates
- Frequency measurement



Mass flow rate







Production rate

# **Frequency Meters / Tachometers**



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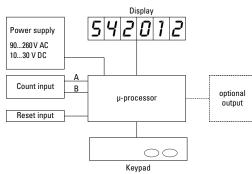
### **Technical data:**

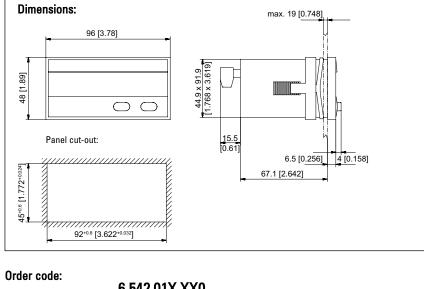
Supply	10 30 V DC, with reverse polarity protection	
voltage:	90 260 V AC	
Current consumption:	max. 50 mA, 6 VA	
Display:	6-digit 7-segment red LED-display;	
	14 mm [0.551"] high	
Data retention:	EEPROM	
Housing:	dimension 96 x 48 mm [3.78 x 1.89"]	
	according to DIN 43 700; RAL 7021, grey	
Polarity of the inputs:	programmable, npn or pnp	
Input resistance:	approx. 5 k $\Omega$	
Count frequency*:	max. 60 kHz, can be damped to 30 Hz	
	depending on operating mode	
Measurement principle:	measurement principle: Gate and/or time-	
	interval (period duration) measurement, with	
	high accuracy <0.1% (HRA)	

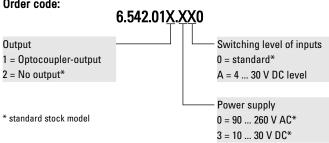
Input switching level (standard version):	DC version:	Low: 0 0,2 x UB [V DC] High: 0.6 x UB 30 V DC	
	AC version:	Low: 0 4 V DC	
		High: 12 30 V DC	
Input switching level		Low 0 2 V DC	
4 30 V DC version:		High 4 30 V DC	
Voltage output for	24 V DC ±15 %/100 mA for		
sensors:	AC-version		
Accuracy:	<0.1 %		
Ambient temperature:	–20 +65 °C [–4 149 °F] non-condensing		
Storage temperature:	–25 +70 °C [–13 158 °F]		
EMC:	Immunity to interference: EN55011 class B		
	Emitted interference EN61000-6-2		
Protection:	IP 65 front side		
Weight:	approx. 150 g [5.291 oz]		

# <sup>\*</sup>for further information please refer to the manual

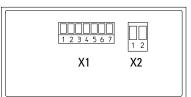
#### Block diagram:







#### Connections:



#### Connection: X2

ſ	Pin	AC-version	DC-version
	1	90 260 V AC	0 V DC (GND)
	2	90 260 V AC	10 30 V DC

#### Connection: X1

Pin	AC-Version	DC-Version
1	Optocoupler-output Collector	
2	Optocoupler-output Emitter	
3	n. c.	
4	n. c.	
5	INP A	
6	GNDout	n.c.
7	+24 Vout	n.c.

Delivery specification: Digital display Mounting clip Gasket Multilingual operating instructions