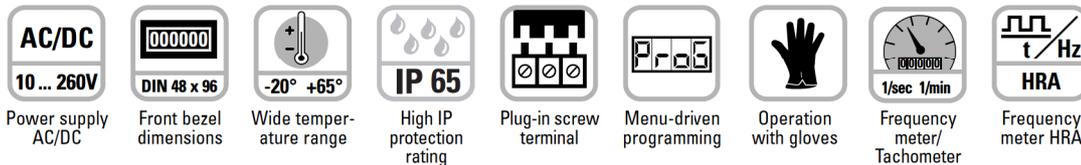


## LED Frequency Meters – Codix 542

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



### 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.



### User-friendly

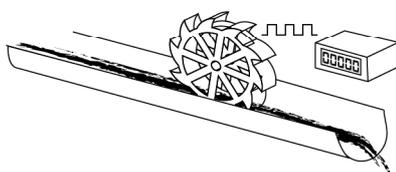
- **Big keys**  
Can also be operated when using gloves
- **Easy to programme**  
Easy menu-driven programming and operation  
Possibility to enter the programming mode during operation, with authentication query

### 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

### Applications for Speed and Frequency Displays

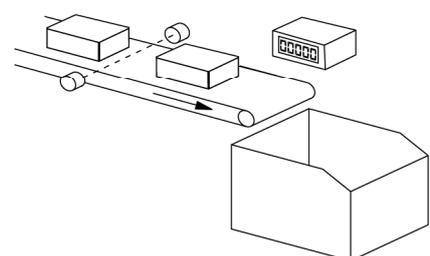
- Rotary speed applications, e.g. OEM equipment or retrofitting to drilling machines
- OEM equipment for flow rate measuring, e.g. current flow rate; production data such as volume/time
- Speed applications on motors, turbines, machines; feed-rate measurement
- Recording of production rates
- Frequency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



Mass flow rate



Drilling machine head, rotary speed



Production rate

## LED Frequency Meters – Codix 542

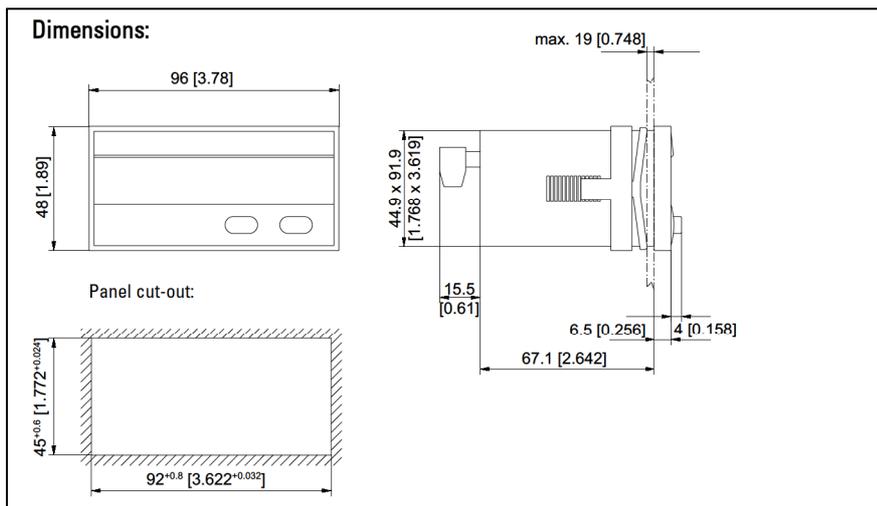
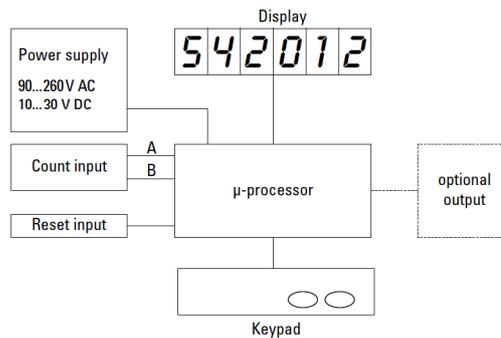
### Technical data:

Supply voltage:	10 ... 30 V DC, with reverse polarity protection 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 npn
Input resistance:	approx. 5 kΩ
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 4 ... 30 V DC version:	Low 0 ... 2 V DC High 4 ... 30 V DC	
	Voltage output for sensors:	24 V DC ±15 %/100 mA for 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]	

\* for further information please refer to the manual

### Block diagram:



### Order code:

**6.542.01X.XX0**

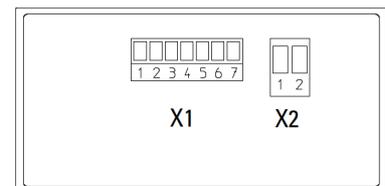
Output  
1 = Optocoupler-output  
2 = No output\*

Switching level of inputs  
0 = standard\*  
A = 4 ... 30 V DC level

Power supply  
0 = 90 ... 260 V AC\*  
3 = 10 ... 30 V DC\*

\* standard stock model

### Connections:



### Connection: X2

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