Hour Meters / Timers, electronic



LED Timers – Codix 543

For use as a timer, hour meter or short-time meter

- Pulse width measurement (operating time)
- Time interval measurement (start/stop)



Power supply AC/DC



Front bezel

dimensions



ature range



protection

rating









ug-in screw Menu-driven terminal programming

Timer/ Hour Meter

Resolution

Powerful

• High accuracy
Thanks to quartz time base

- Robust housing IP 65 protection
- LED display Very bright, 14 mm high
- Time base can be set individually
 Hours, minutes or seconds can be set even more precisely thanks to the max.

 decimal places. Smallest attainable resolution: milliseconds
- Fast start-up time

Detects incoming pulses just 16 ms after being switched on -> so no pulses are lost with a simultaneous motor start-up



User-friendly

Big keys

Pressing either of the keys switches between displays 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 start/stop function

By means of 2 start/stop inputs, up to 4 different measuring principles can be achieved, e.g. active or passive pulse width measurement, time interval measurement with one input or with separate inputs

Manual or electrical reset

Tamper-proof, due to lockable reset function

User-programmable setpoint

Start time at which the time counting should begin

AC or DC power supply

With sensor power supply

Inputs

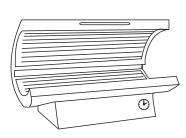
As an alternative to the HTL inputs, devices with a 4 ... 30 V DC input level are available, for use as parallel displays for PLCs

Optional output

1 Hz clock pulse for active time measurement

Applications for time and hour meters, short-time meters

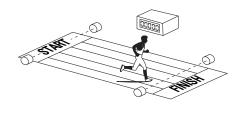
- Time measurements such as hours run recording on all machines and plant, e.g. compressors, solariums, special lights and lamps.
- Accessories, OEM equipment or retrofitting to production machine
- Measurement of short times on processes and procedures, time recording (stopwatch function) at sporting events
- Hours run recording for motor vehicles and time monitoring for rally vehicles



Hours run of UV lamps



Operating hours



Short time measurement > 1 ms

Hour Meters / Timers, electronic



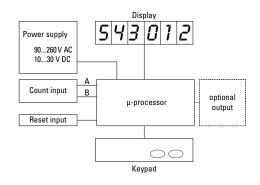
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Technical data:

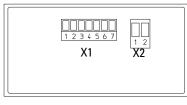
Supply	10 30 V DC, with reverse polarity protection		
voltage:	90 260 V AC		
Current consumption:	max. 50 mA, 6 VA		
Display:	6-digit red 7-segment LED display;		
	14 mm [0.551"] high		
Data backup:	EEPROM		
Housing:	dimension 96 x 48 mm [3.78 x 1.89"]		
	according to DIN 43 700; RAL 7021, grey		
Polarity of Inputs:	programmable, npn or pnp for all inputs		
Input resistance:	approx. 5 kΩ		
Resolution:	0.001 s		
Reset time:	5 ms		
Input switching level	DC-version:		
(standard version):	low: 0 0.2 [0 0.008"] x U _B [V DC]		
	high: 0.6 [0.024"] x U _B 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 DV version: high 4 30 V DC	low 0 2 V DC high 4 30 V DC		
Voltage supply for 24 V DC ± 15 %/100 mA at λ sensors:	AC version		
Power consumption: max. 30 V, 10 mA (Optocoupler)	max. 30 V, 10 mA		
Ambient temperature: −20 +65 °C [-4 149 °F]	–20 +65 °C [–4 149 °F] non-condensing		
Storage temperature: -25 +70 °C [-13 158 °F	–25 +70 °C [–13 158 °F]		
Altitude up to 2000 m	up to 2000 m		
Accuracy: < 50 ppm	< 50 ppm		
EMC: Immunity to interference:	Immunity to interference: EN55011 class B		
Emitted interference EN61	000-6-2		
Device safety: design to:	EN61010 Part 1		
protection Class:	2		
application area:	Soiling Level 2		
Protection: IP 65 front side			
Weight: approx. 150 g [5.291 oz]	approx. 150 g [5.291 oz]		

Block diagram:



Connections:



Dimensions: 96 [3.78] 96 [3.78] Panel cut-out: 92 ***0.8 [3.622 ***0.832] 92 ***0.8 [3.622 ***0.832]

U	on	ne	CT	or	1:	XΖ

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 Emitter		
2	Optocoupler output Collector		
3	INP C (Frequency)		
4	INP B (Count)		
5	INP A (Count)		
6	GNDout	n.c.	
7	+24 Vout n.c.		

Delivery specification:

Digital display
Mounting clip
Gaskets
Multilingual operating instructions

Replacement parts:

7-pin screw terminal RM 3,81 1 ... 7: N100387 2-pin screw terminal RM 5,08 1 ... 2: N100133

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Output		 	Input switch level
1 = Optocoupler			0 = Standard*
output			A = 4 30 V DC level
2 = No output*			
			Power supply
			0 = 90 260 V AC*
			3 = 10 30 V DC
			* standard stock model

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6/2009

Order code: