

Hour meters / timers, electronic

LCD hour meters

Adding counter / service timer, 99999.99 h (DC)

Codix 141 / 143



The Codix 141 / 143 is a simple externally powered hour meter with 7-digit LCD display for PNP, NPN input signals, optionally factory-programmable.

Codix 141: Standard timer Codix 143: Service timer























Lockable reset

Transistor output (143)

Functional

- Direct display of the total time
- Pressing the key displays the preset service value and its pre-signal
- Preset value output as a text on the display and on the transistor output
- · Pre-signal for the service intervals as a text on the display
- Manual or electrical reset of the display or of the service intervals
- Fast PNP or damped NPN control via separate inputs

User-friendly

- Power supply 10 ... 30 V DC
- · Values stored in EEPROM
- Fixed pre-programmed service intervals, e.g.: service at 5000.00 h (service), pre-signal at 4900.00 h (pre-service), blinking text message on the display (service or pre-service)
- Multifunction reset key, lockable via a separate input
- Can also be reset to its delivery condition
- · Factory programmable

Order code Standard timer

6.141 . 012 . 300

Stock types: 6.141.012.300

Order code Service timer

6.143 . 011 . 300 . XXXX . XX

Stock types: 6.143.011.300.005K.00

a Option 2 1)

005K = Service range 5000.00 h

(b) Option 1 1)

00 = Pre-warning at 100.00 before the preset service value
Display shows text PrESErV with pre-warning and text SErViCE
with preset service value

Delivery specification Codix 141 and 143

- Counter
- Mounting clip
- Gasket
- Instruction manual, multilingual

Options 1 and 2 can be individually programmed at the factory according to customer's requirements. Please note: The min. order quantity for custom versions is 10 pcs. with an extra charge, or 200+ pcs. with no extra charge.



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Accessories			Order-No.
Adapter front bezel, 53 x 28 mm	For cut-out 50 x 25 mm to cut-out 45 x 22.2 mm, with clip mounting for counters 48 x 24 mm	anthracite	T008180
Adapter front bezel, 56 x 40 mm	For cut-out 50 x 25 mm to cut-out 45 x 22.2 mm, with screw mounting for counters 48 x 24 mm	anthracite	T008181
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 blac	ck and silver 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	
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	
Mounting frame with cut-out 50 x via separate adapter also for 45 x 22.2 m		53 x 28 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.

General technical data	
Display	LCD, 7 digits, 8 mm high
Undervoltage	display for U _B < 8 V: PO-FAIL and data backup
Counting range	0 99999.99 h decimal point 0.00
Data backup	EEPROM
Operating temperature	-20°C +65°C (non-condensing)
Storage temperature	-25°C +75°C

Mechanical characteristics			
Housing		front panel mount DIN 43700, 48 x 24 mm dark grey Ral 7021	
Connections		8-pole screw terminals, pitch 5.08 mm	
Cleaning		the front side should be cleaned using only a soft cloth moistened with water	
Weight		40 g	
Protection		IP65 (front side) IP20 (rear side)	
Connections		8-pole screw terminals, pitch 5.08 mm	
Vibration resistance	acc. to EN 60068-2-6	10 - 55 Hz / 1 mm / 30 min	
Shock resistance	acc. to EN 60068-2-27 acc. to EN 60068-2-29	100G 10G	

Electrical characteristics			
Power supply		10 30 V DC, max. 25 mA	
Start delay		500 ms	
ЕМС	Emitted interference Immunity to interference	EN 55011 class B EN 61000-6-2	

Inputs		
Input A		static PNP input
Input B		static NPN input
Reset key enable input		static NPN input
Reset		edge-triggered NPN input (min. 20 ms)
Input resistance		10 k0hm
Switching level	LOW HIGH	0 2 V DC 3.5 30 V DC
Switching threshold		approx. 2.7 V DC

Additional data for Codix 143 (service timer)		
Output	NPN transistor output, open collector	
Output voltage	max. 30 V DC	
Output current	max. 50 mA	



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Display and inquiry mode service timer

If the reset key is not released by means of the activation input of pin 6, pressing the key makes the following functions available to the user.

Press 1x: The text "SErViCE" is displayed

Press 2x: The following service value is displayed

Press 3x: The text "PrESErV" is displayed

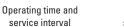
Press 4x: The following preservice value is displayed

Press 5x: The current value is displayed

For the service timers, the values counted remain stored, the service values are incremented by the stored preset value when resetting. E.g. service value 5000.00 h, counter count when resetting 5100.00 h, new service value 10100.00 h.

Applications







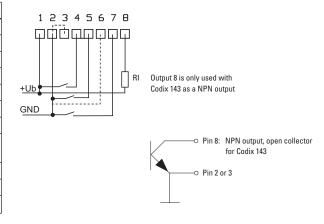
Total time and service interval



Service interval and total time of the UV lamps

Terminal assignment

PIN	Description	Standard timer	Service timer	
Power	Power supply			
1	+U _B	10 30 V DC	10 30 V DC	
2	0 V DC, GND	GND	GND	
Inputs	Inputs			
3	0 V DC, GND	GND	GND	
4	Fast counting input	INP PNP	INP PNP	
5	Slow counting input	INP NPN	INP NPN	
6	Reset enable input	RESET MANUAL ENABLE	RESET MANUAL ENABLE	
7	Reset input	RESET	RESET	
Output				
8	NPN output	n.c.	OUT	



Dimensions



