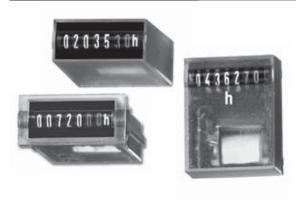


# Hour meters / timers, electromechanical

**Micro timers** 

Many different installation options (DC)

HK 07 / AHK 07



The micro timers of the HK 07 and AHK 07 families offer a particularly large number of variants and can be used in many different applications thanks to their wide voltage range from 4.5 to 35 V DC.

Available as panel, base and PCB mount versions, they can be used in many different fields of application. Thanks to their encapsulated housing, these non-resettable counters are extremely tamper-proof.



#### **Characteristics**

- 7-digit micro hour meter
- · High shock and impact resistance
- Low power consumption; suitable for battery operation
- Small dimensions magnified large figures
- Panel-mount counter with integrated spring clip
- · PCB-mount counter
- · Machine-solderable and wash-proof
- Protection IP65

#### **Benefits**

- Wide voltage range 4.5 ... 35 V DC
- · Count retention in case of power failure
- · Long service life

### **Applications**

General time measurement, maintenance intervals for measuring instruments (respiration units, oxygen, dialysis), small appliances, UV lamps, display panels in vehicles

ig.	Mounting options	Display	Protection	El. connection	Housing	Height of fig.	Туре
)	Panel mount with latch	front side	IP65, front side	flying leads	plastic	4 mm	HK 07.20
	PCB mount, lying	on the top	IP65, front side/on rear	solder pins	plastic	4 mm	HK 07.90
)	PCB mount, upright	front side	IP65, front side/on rear	solder pins	plastic	4 mm	HK 07.92
	Base mount, upright	front side	IP40	flying leads	plastic	4 mm	AHK 07.00
lοι	ınting options and positio	on of the displ	ay				
Pa	anel mount / display front side		2) PCB mount, lying / dis	2) PCB mount, lying / display on the top			display front side
۱ ۵	Base mount, upright / display front side		Optional: PCB mount, hanging / display front side				
, Di							



## Hour meters / timers, electromechanical

## Micro timers Many different installation options (DC) HK 07 / AHK 07

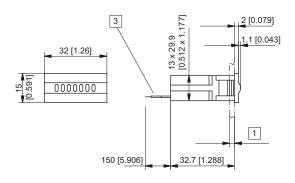
Technical data		
Electrical connection	panel mount	flying leads, AWG 22 (red +, black -) approx. 150 mm, 6 mm stripped wire ends, tinned
	PCB mount	solder pins 0.4 x 1.2 mm, tinned
Power consumption		
(every 36 s with a pulse	length of 32 ms)	
	at $U_B = 5 \text{ V DC}$	typ. 82 mW
;	at $U_B = 12 \text{ V DC}$	typ. 135 mW
	at $U_B = 24 \text{ V DC}$	typ. 135 mW
		max. 170 mW
Rated voltage		4.5 35 V DC
Residual ripple		< 1 %
Current consumption		< 1.5 mA (average)
On time		100 %
Pulse duration		32 ms; every 36 s = 0.01 h
		On-times < 36 s will not be counted
Number of digits		7: 99999.99 h
Accuracy		22.5 ppm at 25°C

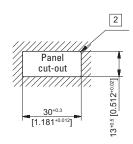
Height of figures		1.2 x 4.0 mm		
Colour of figures		white and red on black		
Reset		no reset		
Operating temperature		-10°C +60°C (non-condensing)		
Mounting p	osition	horizontal, other on request		
Solderable	and washproof versions	HK 07.90, HK 07.91, HK 07.92		
Soldering t	emperature	265°C, 3 s		
Protection		up to IP65 depending on kind of type		
EMC	Emitted interference Immunity to interference	EN 55011 class B EN 61000-6-2		
Housing		plastic PC (Polycarbonate)		
Weight		15 18 g		

# Options HK 07.20 flat pin 0.8 x 2.8 mm (other on request)

### Panel mount with latch / display front side Type HK 07.20





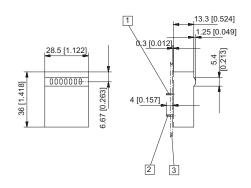


 $\boxed{1} \ 1.2 \ldots 3 \ \text{mm} \qquad \boxed{2} \ R_{\text{max}} \ 0.5 \qquad \boxed{3} \ \text{Flying leads (red+/black-)}$ 

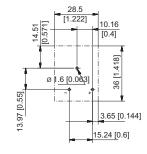
		ArtNo.
Туре	Display	4.5 35 V DC
HK 07.20	7 digits	3.100.200.383 <sup>1)</sup>
HK 07.20.35 with flat pins	7 digits	3.107.200.383 <sup>1)</sup>

# PCB mount, lying / display on the top Type HK 07.90





Punching diagram for PCB (component side)



1 Mounting pin without el. function 0.4 x 1.2 mm 2 Electrical connection 0.4 x 1.2 mm 3 PCB

Туре	Display	ArtNo. 4.5 35 V DC
HK 07.90	7 digits	3.100.900.383

1) Stock types

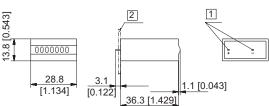


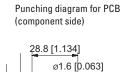
## Hour meters / timers, electromechanical

## Micro timers Many different installation options (DC) HK 07 / AHK 07

# PCB mount, upright / display front side Type HK 07.92







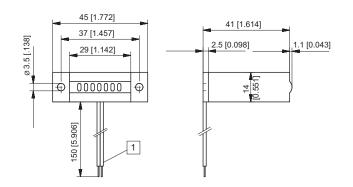


#### 1 Electrical connection 0.4 x 1.2 mm 2 PCB

		Art-No.
Туре	Display	4.5 35 V DC
HK 07.92	7 digits	3.100.920.383

### Base mount, upright / display front side Type AHK 07.00





### 1 Flying leads (red+ / black-)

Туре	Display	ArtNo. 4.5 35 V DC
AHK	<b>07.00</b> 7 digits	3.100.000.383