

Hour meters / timers, electromechanical

Dual function counters

Pulse + time / 2 x time (AC+DC)

HC 77



The counter combinations HC 77 and HC 77.55 comprise an hour meter and a totalizer. They can be controlled both simultaneously and separately.

These panel mount counters have a reduced mounting depth. They can be used in many different fields of application.

Optionally with 2 hour meters on request.



Characteristics

- · Hour meter and totalizer in one single device.
- · Without reset.
- · High shock resistance.
- · Magnified large figures.
- Protection IP52 front side (optional IP65).
- · Data retention in case of power failure.
- · UL-approved.

Benefits

- · Long service life.
- · Optional: counters controlled separately.

Applications

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

Type series

Description

Dual function counter 48 x 48 mm [1.89 x 1.89"]

With adapter front bezel 55 x 55 mm [2.17 x 2.17"]

Туре

HC 77

HC 77.55

Order information:

Art. no. (for special voltages etc. indicate exact model, voltage and frequency e.g. HC 77, 120 V AC, 60~Hz)

Options

· Color of housing grey

Art. no. 3.55X.400.XXX

Flat pin 0.8 x 6.3 mm [0.031 x 0.25"]

Art.-No.: 3.55X.40X.XXX.011

Separate connections for running time meter and adding counter.

This model is available for AC or DC (not mixed)

Adding counter max. 10 Hz

Electrical connection:

 $2~x~cable~2~x~0.5~mm^2~[AWG20],~NYFAZ,~0.5~m~[1.64']$ (hour meter cable red/black, adding counter grey cable)

Art. no. 3.55X.40X.XXX.060

· Sealed window (IP65 front side) with:

- Screw terminal

Art. no. 3.55X.40X.XXX.419

- Flat pin 0.8 x 6.3 mm [0.031 x 0.25"]

Art. no. 3.55X.40X.XXX.062

- Separated connections (cable)

Art. no. 3.55X.40X.XXX.061

· Counter combination with 2 hour meters 10 ... 30 V DC

- 2 x cable 2 x 0.5 mm² [AWG20]

Art. no. 3.554.401.351.060

- Spring-type terminal on request

Accessories	Dimensions in mm [inch]		Order no.
Adapter front bezel, 55 x 55 [2.17 x 2.17"]	for cut-out 50 x 50 [1.97 x 1.97] to cut-out ø 50.5 [1.99], with clip mounting for counters 48×48 [1.89 x 1.89]	T008171	
Adapter front bezel, 60 x 75 [2.36 x 2.95"]	for cut-out 50 \times 50 [1.97 \times 1.97] to cut-out 45 \times 45 [1.7 \times 1.77], with screw mounting for counters 48 \times 48 [1.89 \times 1.89]	black	T008860
Adapter front bezel, 72 x 72 [2.83 x 2.83"]	for cut-out 68×68 [2.68 \times 2.68] to cut-out 45×45 [1.7 \times 1.77], (Mating clip T009420 must be ordered separately)	black	T008177
Adapter front bezel, ø 72 [2.83"]	for cut-out ø 60 [2.36] to 45 x 45 [1.77 x 1.77], with clip mounting for counters 48 x 48 [1.89 x 1.89]	black	N510226

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.



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Technical data

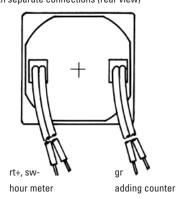
General technical data	a	
Operating indicator of the running time meter	AC	fast rotating wheel with red dashes: 99999.99 h
	DC	1/100 h display turns continuously by 1 digit in 36 s: 999999.99 h
Height of figures		4 x 1.7 mm [0.16 x 0.067"] optical
Color of figures	hour meter	hour: white on black decimal: red on black
p	ulse counter	white on black
Operating temperature		-15°C +50°C [+5°F +122°F] (non-condensing)
Mounting position		any

Mechanical characteristics							
Protection		IP52 (front side) when built in					
Color of housing		black (standard)					
Weight	HC 77	65 g [2.29 oz]					
	plug in frame 55	8 g [0.28 oz]					
	plug in frame 72	13 g [0.46 oz]					

Electrical characte	eristics			
Electrical connection		screw terminal		
		(tightening torque max. 0.8 Nm)		
Power consumption	10 30 V DC	approx. 1 W		
	36 80 V DC	approx. 1.65 W		
	100 130 V DC	approx. 1.75 W		
20) 30 V AC, 50 Hz	approx. 0.53 VA		
42	2 48 V AC, 50 Hz	approx. 0.53 VA		
100	130 V AC, 50 Hz	approx. 1.43 VA		
187	264 V AC, 50 Hz	approx. 3.0 VA		
Rated voltages				
	AC (50 or 60 Hz)	20 30/42 48/100 130/187 264 V		
	DC	10 30/36 80/100 130 V		
On time		100 %		
Count mode		adding		
Accuracy	AC	supply frequency + 30 ms		
	DC	< 0.003 % (at 24 h)		
Reset		no reset		
EMC standards		EN 55011 class B		
		EN 61000-6-2, EN 61000-6-3		
Device safety	designed to	EN 61010 part 1		
	protection class	2		
	application area	pollution level 2		
UL approval		file E128604		

Terminal assignment

Counter with separate connections (rear view)





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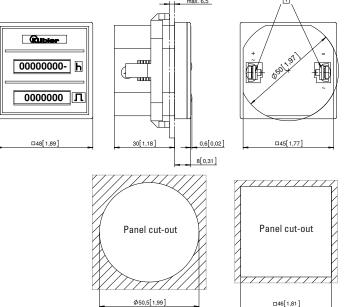
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Dual function counter 48 x 48 [1.89 x 1.89"] Type HC 77



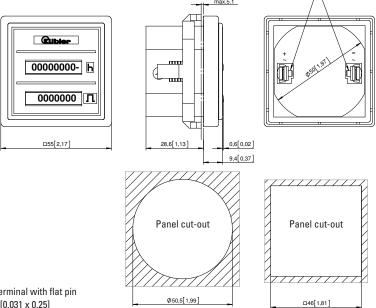


1 Screw terminal with flat pin 0.8 x 6.3 [0.031 x 0.25]

			Art. no.						
Туре	Display	Voltage	10 30 V	20 30 V	36 80 V	42 48 V	100 130 V	187 264 V	
HC 77	7/8 digits	AC (50 Hz)		3.550.401.071		3.550.401.072	3.550.401.074 ¹⁾	3.550.401.075 ¹⁾	
	7/8 digits	AC (60 Hz)		3.550.401.081		3.550.401.082	3.550.401.084	3.550.401.085	
	7/8 digits	DC	3.550.401.351 ¹⁾		3.550.401.353		3.550.401.381		
Color of hou	ısing grey:		Art. no.	3.550.400.XXX					

Dual function counter 48 x 48 [1.89 x 1.89"] with adapter front bezel 55 x 55 [2.17 x 2.17"] Type HC 77.55





1 Screw terminal with flat pin 0.8 x 6.3 [0.031 x 0.25]

			Art. no.						
Туре	Display	Voltage	10 30 V	20 30 V	36 80 V	42 48 V	100 130 V	187 264 V	
HC 77.55	7-/8 digits	AC (50 Hz)		3.551.401.071		3.551.401.072	3.551.401.074	3.551.401.075	
	7/8 digits	AC(60 Hz)		3.551.401.081		3.551.401.082	3.551.401.084	3.551.401.085	
	7/8 digits	DC	3.551.401.351		on request		3.551.401.381		
Color of housing grey:			Art. no.	3.551.400.XXX					

Dimensions in mm [inch]

1) Stock types