

Hour meters / timers, electromechanical

Dual function counters	Pulse + time (AC+DC)	HC 77
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The counter combinations HC 77 and HC 77.55 comprise an hour meter and a totaliser. 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.

Hour meters /
Timers

Characteristics

- Hour meter and totaliser 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	Type	Options
Dual function counter 48 x 48 mm [1.89 x 1.89"]	HC 77	• Colour of housing grey Art.-No. 3.55X.400.XXX
With adapter front bezel 55 x 55 mm [2.17 x 2.17"]	HC 77.55	• 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 mm² [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 Art.-No. 3.554.401.351.060

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 x 48 [1.89 x 1.89]	black T008171
Adapter front bezel, 60 x 75 [2.36 x 2.95"]	For cut-out 50 x 50 [1.97 x 1.97] to cut-out 45 x 45 [1.7 x 1.77], with screw mounting for counters 48 x 48 [1.89 x 1.89]	black T008860
Adapter front bezel, 72 x 72 [2.83 x 2.83"]	For cut-out 68 x 68 [2.68 x 2.68] to cut-out 45 x 45 [1.7 x 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

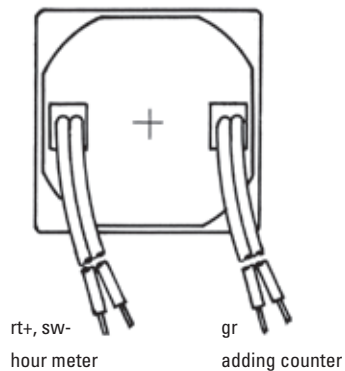
Suitable gaskets as well as further accessories can be found in the accessories section or in the accessories area of our website at: www.kuebler.com/accessories.

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Dual function counters		Pulse + time (AC+DC)	HC 77
General technical data			
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	
Colour of figures	hour meter	hour: white on black	
	pulse counter	decimal: red on black 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	
Colour 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 characteristics			
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 ... 48 V AC, 50 Hz	approx. 0.53 VA	
	100 ... 130 V AC, 50 Hz	approx. 1.43 VA	
Rated voltages	187 ... 264 V AC, 50 Hz	approx. 3.0 VA	
	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	Emitted interference	EN 55011 class B	
	Immunity to interference	EN 61000-6-2	
Device safety	Designed to	EN 61010 part 1	
	Protection class	2	
	Application area	Pollution level 2	
UL approval		E128604	

Terminal assignment

Counter with separate connections (rear view)

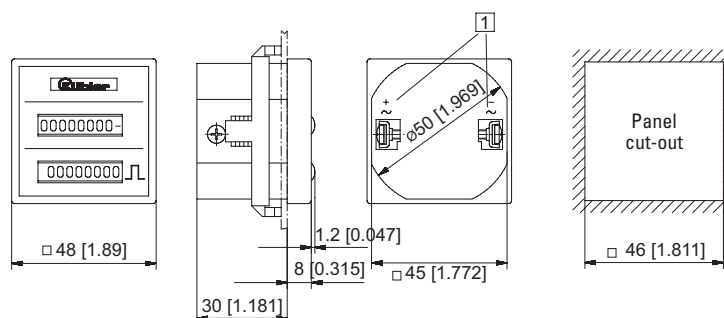


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Dual function counter 48 x 48 [1.89 x 1.89"]

Type HC 77

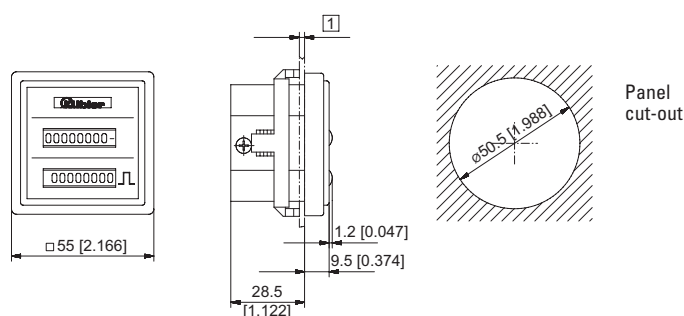


1) Screw terminal with flat pin 0.8 x 6.3 [0.031 x 0.25]

Display			Art.-No.						
Type		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⁾	
		AC (60 Hz)		3.550.401.081		3.550.401.082	3.550.401.084	3.550.401.085	
		DC	3.550.401.351 ¹⁾		3.550.401.353		3.550.401.381		
Colour of housing 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) max. 6.5

Type	Display	Voltage	Art.-No. 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	
		AC(60 Hz)		3.551.401.081		3.551.401.082	3.551.401.084	3.551.401.085	
		DC	3.551.401.351		on request		3.551.401.381		
Colour of housing grey:			Art.-No.	3.551.400.XXX					