

Hour meters / timers, electromechanical

Timers with DIN dimensions

DIN counter for panel mount / DIN rail housing, 48 x 48 mm

H57 / H57R / AH57



The hour meters H57, H57.55, H57.72, H57R and AH57 feature a very high shock resistance. These panel / DIN rail mount counters have a reduced mounting depth. They can be used in many different fields of application. These non-resettable counters are extremely tamper-proof.



Characteristics

- 7 or 8-digit hour meter.
- High shock and impact resistance.
- Without reset, small mounting depth.
- Magnified large figures.
- Protection IP52 (optional IP65), suitable for any mounting position.
- UL-approved.
- Various front bezel sizes
 - H57 48 x 48 mm
 - H57.55 55 x 55 mm
 - H57.72 72 x 72 mm
 - H57R ø 58 mm
 - AH57 48 x 48 mm for DIN rail

Benefits

- 5 years guarantee. ¹⁾
- High reliability: for a better sale of your final product.
- Data 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

Type series

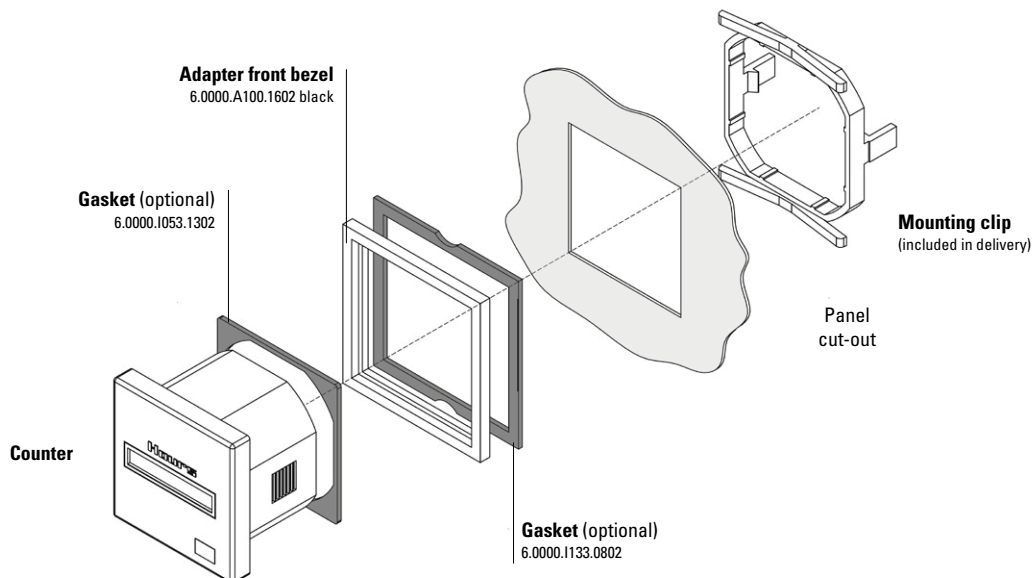
Description	Mounting	Front bezel	Type
Standard DIN timer	clip mounting, on rear	48 x 48 mm [1.89 x 1.89"]	H57
Standard DIN timer	clip mounting, on rear	55 x 55 mm [1.97 x 1.97"]	H57.55
Standard DIN timer	clip mounting, on rear	72 x 72 mm [2.83 x 2.83"]	H57.72
Round timer	clip mounting, on rear	ø 58 mm	H57R
Base mount timer	DIN rail 35 mm [1.38"] acc. to DIN EN 50022		AH57

1) When used as specified in the technical data

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Accessories / Mounting examples



		Type / size	Description		Order no.	suitable gasket
Adapter front bezel		55 x 55 mm [2.17 x 2.17]	for cut-out 50 x 50 mm [1.97 x 1.97"] or ø 50,5 mm [1.99"] to cut-out 45 x 45 mm [1.77 x 1.77"]	grey black	6.0000.A100.1601 6.0000.A100.0602	6.0000.I104.1402
		55 x 55 mm [2.17 x 2.17]	for cut-out 50 x 50 mm [1.97 x 1.97"] to cut-out 45 x 45 mm [1.77 x 1.77"]	black	6.0000.A100.1602	6.0000.I133.0802
		60 x 75 mm [2.36 x 2.95]	for cut-out 50 x 50 mm [1.97 x 1.97"] to cut-out 45 x 45 mm [1.77 x 1.77"]	black	6.0000.A150.0602	6.0000.I154.1602
		72 x 72 mm [2.83 x 2.83]	for cut-out 68 x 68 mm [2.68 x 2.68"] to cut-out 45 x 45 mm [1.77 x 1.77"]	grey black Mating clip	6.0000.A160.1901 6.0000.A160.1902 6.0000.S100.0002	6.0000.I164.1402
		ø 72 mm [2.83]	for cut-out ø 60 mm [2.36"] to cut-out 45 x 45 mm [1.77 x 1.77"]	black	6.0000.A220.2002	—
Gasket counter			48 x 48 mm (for installation in adapter front bezel)		6.0000.I053.1302	
Mounting frame		cut-out 50 x 50 mm [2.36 x 2.36]	for snap-on mounting on 35 mm [1.38"] top-hat DIN rail (includes adapter front bezel 55 x 55 mm)	chromated	6.0000.F200.0006	
Base mount socket				black	6.0000.S020.0002	

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Technical data															
Electrical connection	screw terminals (tightening torque max. 0.8 Nm) wire entry from behind, for $\varnothing 2.5 \text{ mm}^2$ [AWG13]														
Power consumption	<table> <tr> <td>10 ... 30 V DC</td><td>approx. 500 mW</td></tr> <tr> <td>100 ... 130 V DC</td><td>approx. 750 mW</td></tr> <tr> <td>20 ... 30 V AC, 50 Hz</td><td>approx. 0.3 VA</td></tr> <tr> <td>42 ... 48 V AC, 50 Hz</td><td>approx. 0.25 VA</td></tr> <tr> <td>100 ... 130 V AC, 50 Hz</td><td>approx. 0.6 VA</td></tr> <tr> <td>187 ... 264 V AC, 50 Hz</td><td>approx. 1.2 VA</td></tr> <tr> <td>360 ... 440 V AC, 50 Hz</td><td>approx. 1.65 VA</td></tr> </table>	10 ... 30 V DC	approx. 500 mW	100 ... 130 V DC	approx. 750 mW	20 ... 30 V AC, 50 Hz	approx. 0.3 VA	42 ... 48 V AC, 50 Hz	approx. 0.25 VA	100 ... 130 V AC, 50 Hz	approx. 0.6 VA	187 ... 264 V AC, 50 Hz	approx. 1.2 VA	360 ... 440 V AC, 50 Hz	approx. 1.65 VA
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Rated voltages	<table> <tr> <td>AC (50 or 60 Hz)</td><td>20 ... 30 V, 42 ... 48 V, 100 ... 130 V, 187 ... 264 V, 360 ... 440 V</td></tr> <tr> <td>DC</td><td>10 ... 30 V, 36 ... 80 V, 100 ... 130 V</td></tr> </table>	AC (50 or 60 Hz)	20 ... 30 V, 42 ... 48 V, 100 ... 130 V, 187 ... 264 V, 360 ... 440 V	DC	10 ... 30 V, 36 ... 80 V, 100 ... 130 V										
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DC	10 ... 30 V, 36 ... 80 V, 100 ... 130 V														
On time	100 %														
Number of digits	<table> <tr> <td>7 at AC</td><td>99999.99 h</td></tr> <tr> <td>8 at DC</td><td>999999.99 h</td></tr> </table>	7 at AC	99999.99 h	8 at DC	999999.99 h										
7 at AC	99999.99 h														
8 at DC	999999.99 h														
Count mode	adding														
Height of figures	4 mm [0.16"]														
Color of figures	white and red on black														
Operating temperature	<table> <tr> <td>AC</td><td>-25 °C ... +80 °C [-13 °F ... +176 °F] (non-condensing)</td></tr> <tr> <td>DC</td><td>-20 °C ... +70 °C [-4 °F ... +158 °F] (non-condensing)</td></tr> </table>	AC	-25 °C ... +80 °C [-13 °F ... +176 °F] (non-condensing)	DC	-20 °C ... +70 °C [-4 °F ... +158 °F] (non-condensing)										
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DC	-20 °C ... +70 °C [-4 °F ... +158 °F] (non-condensing)														
Storage temperature	-40 °C ... +85 °C [-40 °F ... +185 °F]														
Relative humidity at +30 °C [+86 °F]	≤ 80 % (non-condensing)														
Altitude	up to 2000 m [6562']														
Mounting position	any														
Protection	<table> <tr> <td>H57 / AH57</td><td>IP52, DIN 40050 (front side) optional IP65</td></tr> <tr> <td>H57R</td><td>IP65, DIN 40050 (front side)</td></tr> </table>	H57 / AH57	IP52, DIN 40050 (front side) optional IP65	H57R	IP65, DIN 40050 (front side)										
H57 / AH57	IP52, DIN 40050 (front side) optional IP65														
H57R	IP65, DIN 40050 (front side)														
Device safety	<table> <tr> <td>designed to</td><td>EN 61010 part 1</td></tr> <tr> <td>protection class</td><td>2</td></tr> <tr> <td>application area</td><td>pollution level 2</td></tr> </table>	designed to	EN 61010 part 1	protection class	2	application area	pollution level 2								
designed to	EN 61010 part 1														
protection class	2														
application area	pollution level 2														
Housing	plastic PC (Polycarbonate)														
Accuracy	<table> <tr> <td>AC</td><td>supply frequency + 30 ms</td></tr> <tr> <td>DC</td><td>< 0.003 % (at 24 h)</td></tr> </table>	AC	supply frequency + 30 ms	DC	< 0.003 % (at 24 h)										
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DC	< 0.003 % (at 24 h)														
Weight	<table> <tr> <td>H57</td><td>approx. 48 g [1.69 oz]</td></tr> <tr> <td>base mount socket no. 48</td><td>36 g [1.27 oz]</td></tr> <tr> <td>slip-on bezel 55</td><td>8 g [0.28 oz]</td></tr> <tr> <td>slip-on bezel 72</td><td>13 g [0.46 oz]</td></tr> </table>	H57	approx. 48 g [1.69 oz]	base mount socket no. 48	36 g [1.27 oz]	slip-on bezel 55	8 g [0.28 oz]	slip-on bezel 72	13 g [0.46 oz]						
H57	approx. 48 g [1.69 oz]														
base mount socket no. 48	36 g [1.27 oz]														
slip-on bezel 55	8 g [0.28 oz]														
slip-on bezel 72	13 g [0.46 oz]														
Operating indicator of the running time meter	<table> <tr> <td>AC</td><td>fast rotating wheel with red dashes</td></tr> <tr> <td>DC</td><td>1/100 h display turns continuously by 1 digit in 36 s</td></tr> </table>	AC	fast rotating wheel with red dashes	DC	1/100 h display turns continuously by 1 digit in 36 s										
AC	fast rotating wheel with red dashes														
DC	1/100 h display turns continuously by 1 digit in 36 s														
Test voltage	2000 V AC, 50 Hz for AC counters														

Options							
Housing color	<table> <tr> <td>black</td><td>standard</td></tr> <tr> <td>grey (only for H57, AH57)</td><td>Order code: 3.22X.400.XXX</td></tr> </table>	black	standard	grey (only for H57, AH57)	Order code: 3.22X.400.XXX		
black	standard						
grey (only for H57, AH57)	Order code: 3.22X.400.XXX						
Timer H57.55 mounted with adapter front bezel 55 x 55 mm [2.17 x 2.17"]	Order code: 3.221.XXX.XXX						
Timer H57.72 mounted with adapter front bezel 72 x 72 mm [2.83 x 2.83"]	Order code: 3.222.XXX.XXX						
(For a cut-out size of 68 x 68 mm, a counterholder 6.0000.S100.0002 is also required.)							
Electrical connection	<table> <tr> <td>flat pin 0.8 x 6.3 mm [0.031 x 0.25"]</td><td>Order code: 3.22X.80X.XXX</td></tr> </table>	flat pin 0.8 x 6.3 mm [0.031 x 0.25"]	Order code: 3.22X.80X.XXX				
flat pin 0.8 x 6.3 mm [0.031 x 0.25"]	Order code: 3.22X.80X.XXX						
IP65 version, on the front side	Order code:						
Cover heat-sealed	<table> <tr> <td>H57</td><td>3.220.XXX.XXX.422</td></tr> <tr> <td>H57.55</td><td>3.221.XXX.XXX.423</td></tr> <tr> <td>H57.72</td><td>3.222.XXX.XXX.424</td></tr> </table>	H57	3.220.XXX.XXX.422	H57.55	3.221.XXX.XXX.423	H57.72	3.222.XXX.XXX.424
H57	3.220.XXX.XXX.422						
H57.55	3.221.XXX.XXX.423						
H57.72	3.222.XXX.XXX.424						
Gaskets							
between the counter and the bezel	<table> <tr> <td>H57</td><td>6.0000.1053.1302</td></tr> </table>	H57	6.0000.1053.1302				
H57	6.0000.1053.1302						
Gasket set	<table> <tr> <td>H57.55</td><td>6.0000.1053.1302 + 6.0000.1104.1402</td></tr> <tr> <td>H57.72</td><td>6.0000.1053.1302 + 6.0000.1164.1402</td></tr> </table>	H57.55	6.0000.1053.1302 + 6.0000.1104.1402	H57.72	6.0000.1053.1302 + 6.0000.1164.1402		
H57.55	6.0000.1053.1302 + 6.0000.1104.1402						
H57.72	6.0000.1053.1302 + 6.0000.1164.1402						
(Included with the IP65 versions)							
Further voltages on request							
Counter with cable inlet from underneath, screw fixing from rear							
Order code: 3.220.401.XXX.044							

Approvals	
UL compliant in accordance with	File no. E128604 ¹⁾
CE compliant in accordance with	
EMC Directive	2014/30/EU
RoHS Directive	2011/65/EU
Low Voltage Directive	2014/35/EU

1) The version 360 ... 440 V AC is not UL listed.

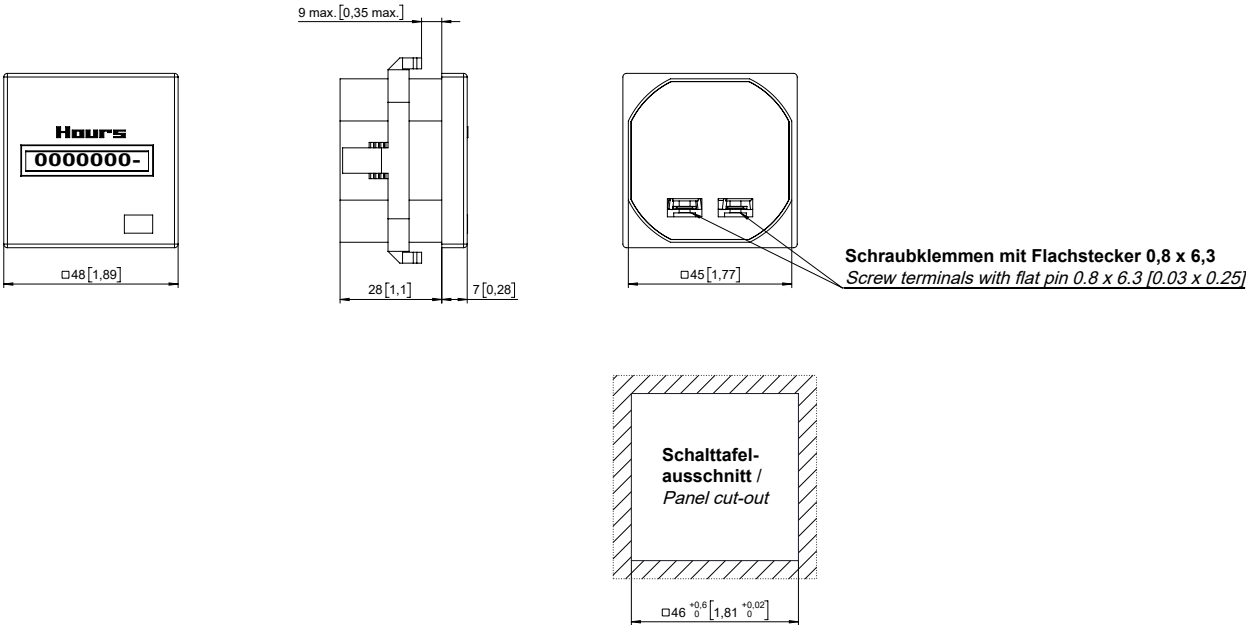
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Standard DIN timer
clip mounting, on rear
Type H57



Type	Display	Voltage	Order code.						
			10 ... 30 V	20 ... 30 V	42 ... 48 V	100 ... 130 V	187 ... 264 V	360 ... 440 V	
H57	7 digits	AC (50 Hz)		3.220.401.071 ¹⁾	3.220.401.072	3.220.401.074 ¹⁾	3.220.401.075 ¹⁾	3.220.401.079	
	7 digits	AC (60 Hz)		3.220.401.081 ¹⁾	3.220.401.082	3.220.401.084 ¹⁾	3.220.401.085	3.220.401.089	
	8 digits	DC	3.220.401.351 ¹⁾			3.220.401.381			
Further stock types:			3.220.401.075.422 ¹⁾ 3.220.401.085.422 ¹⁾ 3.220.401.351.422 ¹⁾ 3.220.400.075 ¹⁾						



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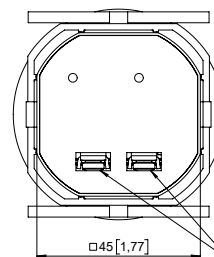
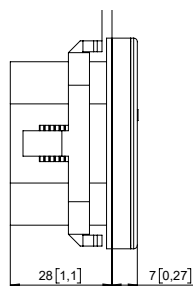
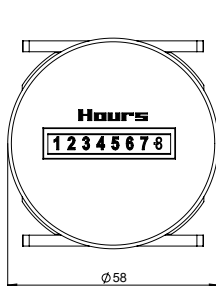
H57 / H57R / AH57

Round timer
clip mounting, on rear

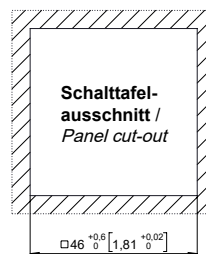
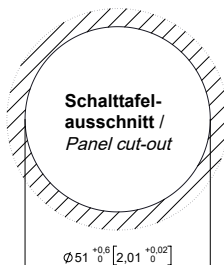
Type H57R



Type	Display	Voltage	Order code						
			10 ... 30 V	20 ... 30 V	42 ... 48 V	36 ... 80 V	100 ... 130 V	187 ... 264 V	360 ... 440 V
H57R	7 digits	AC (50 Hz)		3.224.401.071 ¹⁾	3.224.401.072		3.224.401.074 ¹⁾	3.224.401.075 ¹⁾	3.224.401.079
	7 digits	AC (60 Hz)		3.224.401.081 ¹⁾	3.224.401.082		3.224.401.084 ¹⁾	3.224.401.085	3.224.401.089
	8 digits	DC	3.224.401.351 ¹⁾			on request	3.224.401.381		



Schraubklemmen mit Flachstecker 0,8 x 6,3
Screw terminals with flat pin 0.8 x 6.3 [0.03 x 0.25]



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Base mount timer
DIN rail mount 35 [1.38] acc. to DIN EN 50022
Type AH57



Type	Display	Voltage	Order code.						
			10 ... 30 V	20 ... 30 V	42 ... 48 V	100 ... 130 V	187 ... 264 V	360 ... 440 V	
AH57	7 digits	AC (50 Hz)		3.223.401.071 ¹⁾	3.223.401.072	3.223.401.074 ¹⁾	3.223.401.075 ¹⁾	3.223.401.079	
	7 digits	AC (60 Hz)		3.223.401.081	3.223.401.082	3.223.401.084	3.223.401.085	3.223.401.089	
	8 digits	DC	3.223.401.351 ¹⁾			3.223.401.381			

