

The OMRON logo is displayed in a bold, blue, sans-serif font. The letters are thick and closely spaced, with the 'O' being a solid circle. The entire logo is set against a light yellow rectangular background.

Automatización Eléctrica
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Self-powered tachometer



The H7E series is available with large display with 8.6mm character height. It includes models with backlight for improved visibility in dimly lit places. The H7E family includes total counters, time counters, tachometers and PCB mounted counters.

- Size in mm (HxWxD) 24x48x53.5, 1/32 DIN size housing
- 5 digits, 8.6mm character height
- Black or light-grey housing
- Dual revolution display

Ordering information

Count input	Display	Order code			
		Max. revolutions displayed (applicable encoder resolution)			
		1,000 s ⁻¹ (1 pulse/rev.) 1,000 min ⁻¹ (60 pulse/rev.)		1,000.0 s ⁻¹ (10 pulse/rev) 1,000.0 min ⁻¹ (60 pulse/rev) <-> 10,000 min ⁻¹ (60 pulse/rev) (switchable)	
		Light grey body	Black body	Light grey body	Black body
No-voltage input	7-segment LCD	H7ER-N	H7ER-N-B		
PNP/NPN universal	7-segment LCD	H7ER-NV	H7ER-NV-B	H7ER-NV1	H7ER-NV1-B
DC voltage input	7-segment LCD with backlight	H7ER-NV-H	H7ER-NV-BH	H7ER-NV1-H	H7ER-NV1-BH

Specifications

Item	H7ER-NV1-_/H7ER-NV1-_H	H7ER-NV-_/H7ER-NV-_H	H7ER-N-__
Operating mode	Up type		
Mounting method	Flush mounting		
External connections	Screw terminals, wire-wrap terminals		
Display	7-segment LCD with or without backlight, zero suppression (character height: 8.6 mm)		
Number of digits	5	4	
Max. revolutions displayed	1,000.0 s ⁻¹ (when encoder resolution of 10 pulse/rev is used) 1,000.0 min ⁻¹ (when encoder resolution of 600 pulse/rev is used) <-> 10,000 min ⁻¹ (when encoder resolution of 60 pulse/rev is used) (switchable with switch)	1,000 s ⁻¹ (when encoder resolution of 1 pulse/rev is used) 1,000 min ⁻¹ (when encoder resolution of 60 pulse/rev is used)	
Attachment	Waterproof packing, flush mounting bracket, revolution unit labels		
Supply voltage	Backlight model: 24 VDC (0.3 W max.) (for backlight lit) No-backlight model: Not required (powered by built-in battery)	Not required (powered by built-in battery)	
Count input	High (logic) level: 4.5 to 30 VDC Low (logic) level: 0 to 2 VDC (Input impedance: Approx. 4.7 kΩ)	No voltage input Maximum short-circuit impedance: 10 kΩ max. Short-circuit residual voltage: 0.5 V max. Minimum open impedance: 750 kΩ min.	
Max. counting speed	10 kHz	1 kHz	
Minimum signal width	10 kHz: 0.05 ms, 1 kHz: 0.5 ms		
Ambient temperature	Operating: -10 to 55°C (with no condensation or icing), storage: -25 to 65°C (with no condensation or icing)		
Degree of protection	Front-panel: IP66, NEMA4 with waterproof packing, terminal block: IP20		
Battery life (reference)	7 years min. with continuous input at 25°C (lithium battery)		
Size in mm (HxWxD)	24x48x53.5		



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