

WRH ACTIVE HOT CATHODE PIRANI GAUGE

edwardsvacuum.com

The active Hot Cathode wide range gauge (WRH) offers the ability to measure from atmosphere to 10⁻¹⁰mbar with a single gauge, with accuracy and repeatability.

The WRH gauge utilises 2 measurement methods (bayard-alpert & pirani) in a single package, giving you everything you need to measure and control your system. With analogue and RS485 output available via the D-SUB connector, 2 onboard relays and easy calibration, control and monitoring is simple. Utilising the included software, you can easily track and log your system's performance and also make adjustments to the gauges behaviour, such as setting the set points or changing the output scaling. This gauge is the perfect companion for many applications, from R&D institutes to high end mass spectrometry and through to general industry.

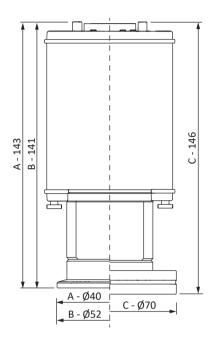
Features and benefits

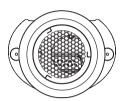
- All in one wide pressure measurement
- Dedicated software package included to allow full control/monitoring/modification
- Bakeable up to 180°C
- Analogue and RS485 output on same gauge
- LED status indicators
- 2 adjustable set points

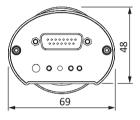


PRODUCT DATA SHEET edwardsvacuum.com

Dimensions







A = D14750100

B = D14750110

C = D14750120

Technical data

WRH				
Measuring range	1000 – 5e ⁻¹⁰ mbar			
Accuracy	1000 to 10 mbar ± 30%, 10 to 1e ⁻⁸ mbar: ± 10%			
Repeatability	10 to 1e ⁻² mbar ± 2%, 1e ⁻² to 1e ⁻⁸ mbar: ± 5%			
Dimension	141 mm x 69 mm x 55 mm			
Weight	0.475 kg			
Max overload pressure	4 bar abs.			
Materials in contact with vacuum	Stainless steel 1.4307, Tungsten, Nickel, Glass, Platinum, Iridium, Yttrium Oxide			
Emission current	9 μA, 100 μA, 1.0 mA, 2.0 mA			
Operating temp	+5+60 °C			
Storage temp	40+65 °C			
Bake out temp	Max. 180°C at the flange (voltage supply switched-off)			
Voltage supply	20 – 30 VDC			
Power consumption	Max. 8 W			
Output signal	0 – 10 VDC analogue or RS485			
Electrical connection	15 pin D-Sub			
Protection class	IP40			

Ordering information

Part number	Part description		
D14570100	WRH-NW25		
D14750110	WRH-NW40		
D14750120	WRH-DN40CF		
D14750101	WRH-NW25 Spare sensor		
D14750111	WRH-NW40 Spare sensor		
D14750121	WRH-DN40CF Spare sensor		
D14750880	Instruction manuals		

Publication Number: 3601 0619 01 © Edwards Limited 2019. All rights reserved. Edwards and the Edwards logo are trademarks of Edwards Limited.

Whilst we make every effort to ensure that we accurately describe our products and services, we give no guarantee as to the accuracy or completeness of any information provided in this datasheet.

Edwards Ltd., registered in England and Wales No. 6124750, registered office: Manor Royal, Crawley, West Sussex RH10 9LW, United Kingdom.

GLOBAL CONTACTS

EMEA		ASIA PACIFIC	
UK	+44 (0) 1444 253 000 (local rate) 0845 921 2223	China India	+86 400 111 9618 +91 20 4075 2222
Belgium	+32 2 300 0730	Japan	+81 47 458 8836
France	+33 1 4121 1256	Korea	+82 31 716 7070
Germany	0800 000 1456	Singapore	+65 6546 8408
Italy	+39 02 48 4471	Taiwan	+886 3758 1000
Israel	+972 8 681 0633		
		AMERICAS	
		USA	+1 800 848 9800
		Brazil	+55 11 3952 5000

