

VCT160N Pirani Vacuum Gauge

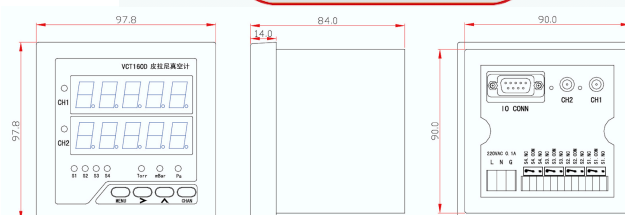
VCT160N is a Pirani vacuum gauge developed specifically for measuring medium and low vacuum environments, with a high cost performance ratio. The structural design of separating the probe and instrument makes the use and maintenance cost of VCT160N much lower than that of similar vacuum gauges. Independent control instruments are particularly suitable for cabinet installation in industrial control systems, and can also be placed separately on the table for observation and reading.

Compared to traditional vacuum gauges, VCT160N not only has a more aesthetically pleasing exterior design, but also has undergone targeted functional optimizations, resulting in excellent reliability, ease of use, convenience, and economy.



Advantages

- Separate design: The instrument and probe can be independently replaced
- Vacuum range covers 1E-2Pa to 1.0E+5Pa
- Intelligent calibration for ATM and HV
- Automatic temperature compensation for better stability and accuracy
- Setpoints: maximum 4 single points and interval control mode
- Dual communication mode, supports RS485 and AO (0-10V and 4-20mA are optional)
- Adapted to IVMS system, capable of real-time collection and recording of vacuum degree data
- Support firmware upgrade



Output formula

$$P=10^{((U-C)/1.286)} \iff U=C+1.286 \times \lg P$$

P: Pressure

U: Voltage(V)

C: Constant

(Pressure Unit Dependent)

U	P	C
(V)	Pa	3.572
(V)	mBar	6.143
(V)	Torr	6.304

Specification

Materials exposed to vacuum	SS316L stainless steel, tungsten, kovar, glass
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Accuracy(N2)	2.0×10 ⁻² ~1.0×10 ⁻¹ Pa : ±30% of reading 1.0×10 ⁻¹ ~1.0×10 ⁺⁴ Pa : ±15% of reading 1.0×10 ⁺⁴ ~1.0×10 ⁺⁵ Pa : ±50% of reading
Repeatability	1.0×10 ⁻² ~1.0×10 ⁻¹ Pa : 5% 1.0×10 ⁻¹ ~1.0×10 ⁺³ Pa : 2% 1.0×10 ⁺³ ~1.0×10 ⁺⁵ Pa : 5%
Data Collection	Resolution of 1%, response time<100ms
Display	5-digit digital tube, vacuum display on real time
Output	Analog voltage/current output, RS485(Modbus Rtu)
Setpoints(optional)	Maximum 4 relays; Load: 3A/220VAC
Admissible temperature	Operation 0 °C~+45°C, storage -40 °C~+75°C
Power supply	85VAC~265VAC/0.5A, power consumption: 10W Max
Weight	0.5Kg (probe and cable included)
Installation	Embedded panel openings: 91×91 (+0.2/-0.0)mm

Purchasing Guide

The functional configuration of the product is specified through the order number described below:

	VCT160N	—	<input checked="" type="checkbox"/>	—	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	—	<input checked="" type="checkbox"/>	—	<input checked="" type="checkbox"/>
			↓		↓			↓		↓
Channels										
single			1							
double channels/single display			2							
double channels/double display			3							
Output										
No analog output					0					
0-10V					1					
4-20mA					2					
not support 485						0				
support 485						1				
Setpoints										
no setpoint								0		
1 SP								1		
2 SPs								2		
3 SPs								3		
4 SPs								4		
Temperature compensation										
not support										0
support										1

For example: VCT160N-1-11-4-1

Meas VCT160N with single channel, single display, with both analog(0-10v) and 485 data communication, support temperature compensation.

Explanation:

When customers purchase, please accurately provide the order number of the required product. Unless otherwise stated, all products sold by our company are standard, and the corresponding order number is **VCT160-1-01-0-1**

For more product information, please contact us

Tel: 021-54130910

website: www.infitech-cn.com