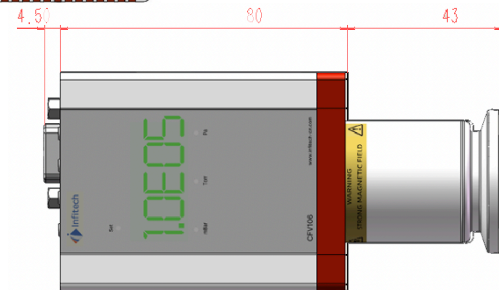
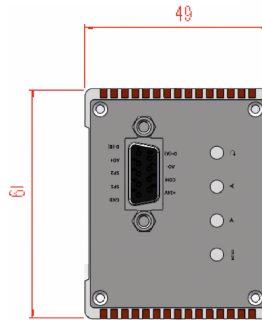


CFV 106 Pirani/Cold Cathode Vacuum Gauge

The INFITECH CFV106 Pirani and Cold Cathode Compound Vacuum Gauge Measure from 1.0×10^{-7} mbar to atmosphere (1.0×10^{-5} Pa to $1.0 \times 10^{+5}$ Pa). With combining technology, CFV106 significantly reduce the size and complexity of installation, meanwhile improve the performance and lifetime.

Advantages

- Wide measurement range from 1.0×10^{-7} mbar to atmosphere
- No filament to burn out
- Easy to clean
- LED indication for realtime vacuum display
- 485 data communication and logarithmic analog output signal, 0-10V and 4-20mA are optional
- Pirani interlock mechanism ensure gauge can be safely started at any vacuum degree.
- Setpoints: maximum 4 single points and interval control mode
- Adapted to IVMS system, capable of real-time collection and recording of vacuum degree data
- Support firmware upgrade



Output formula

$$P = 10^{1.222(U-C)} \iff U = C + 0.818 \lg P$$

P: Pressure

U: Voltage(V)

C: Constant
(Pressure Unit Dependent)

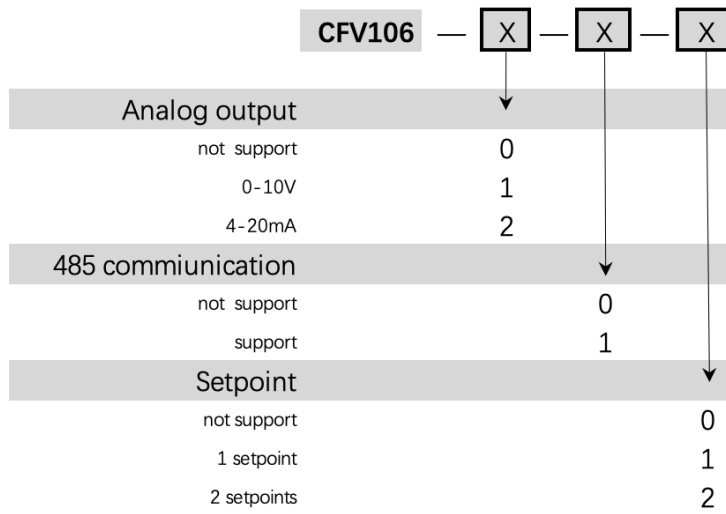
U	P	C
(V)	Pa	5.909
(V)	mBar	7.545
(V)	Torr	7.647

Specification

Measurement range	$1.0 \times 10^{-5} \sim 1.0 \times 10^{+5}$ Pa (air, N ₂)
Accuracy	$1.0 \times 10^{-5} \sim 1.0 \times 10^{-4}$ Pa : $\pm 30\%$ of reading $1.0 \times 10^{-4} \sim 1.0 \times 10^{-2}$ Pa : $\pm 20\%$ of reading $1.0 \times 10^{-2} \sim 1.0 \times 10^{+4}$ Pa : $\pm 15\%$ of reading $1.0 \times 10^{+4} \sim 1.0 \times 10^{+5}$ Pa : $\pm 50\%$ of reading
Repeatability	$1.0 \times 10^{-5} \sim 1.0 \times 10^{+5}$ Pa : $\pm 5\%$ of reading
Data collection	Resolution of 1%, response time < 100ms
Admissible temperature	Operation 0 °C ~ +55 °C, storage -40 °C ~ +75 °C
Bake-out temperature	120 °C Max (remove the electronic control unit and magnetic shielding)
Power supply	16VDC ~ 32VDC / 0.5A, recommend +24VDC ($\pm 20\%$) / 0.5A
Power Consumption	2.5W Max
Output	5 digits LED display, 485 Data communication (Modbus RTU), 0-10V/4-20mA (Optional)
Setpoints	Maximum 2 setpoints (Optional)
Vacuum connection	DN 25 ISO-KF
Material exposed to vacuum	.SS316L, W, Mo, Al ₂ O ₃ , Ni, FPM75
Max withstand pressure	1.5bar
Weight	450g (include DN25 ISO-KF flange)

Purchasing Guide

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



For example:

CFV106-2-1-2, means CFV106 without 0-10V analog output, support 485 data remote communication, and 2 setpoints.

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 CFV106-0-1-0.

For more product information, please contact us

Tel: 021-54130910

website: www.infitech-cn.com