



Vacuum Pressure Controller –Upstream Control of Vacuum Systems



Specifically designed for Vacuum ... The Apex Pressure Controllers provide accurate and repeatable pressure control for vacuum processes.

The Apex APC Series Pressure Control for vacuum processes uses the linear output of capacitance diaphragm gauges (CDG) to transmit a signal directly to the Apex APC. The PID loop in the Apex APC opens and closes the gas flow valve to quickly and accurately control vacuum pressure in the system. With update times of 100 milliseconds, this allows a smooth, quick and accurate control of vacuum pressure.

Input can be 0-5V, 0-10V, RS-232 or direct input on the pressure controller itself.

Along with this Apex APC Pressure Controller, a Capacitance Diaphragm Gauge is required for the desired vacuum range.

The Apex APC is simple, accurate, fully functional and low cost.

[Contact Us](#)



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What makes us different?

- **Ranges from 1000 torr to 1×10^{-3} torr**
-
- **Fast Response-** 100 milliseconds to control
- **Digital Read-out**
- **Addressable RS-232 Interface-**
- **Pinpoint Accuracy-** 0.5% Accuracy Full Scale
- **100-1 Turndown Ratio**
- **Lower Cost** - More features but not more costly
- **No Costly Readouts Needed**
- **Plug In Low Cost Power Supply Chord**

Plug In Power Supply



PVPS24U Power Supply



Vacuum Pressure Controllers

Specifications

| Basic Specification | Pressure Controllers | Description |
|-------------------------------|---|------------------------------|
| Accuracy | +/- 0.5% | Full Scale |
| Repeatability | ± 0.08% | Full Scale |
| Operating Range | 1% to 100% Full Scale | Measure and Control |
| Typical Response Time | 100 | Milliseconds |
| Operating Conditions (STP) | -10 to 50 | ° Celsius |
| Operating Temperature | -10 to + 50 | ° Celsius |
| Zero Shift | 0.02% | Full Scale / ° Celsius / Atm |
| Span Shift | 0.02% | Full Scale / ° Celsius / Atm |
| Flow Rate | 102.4% Controllable | Full Scale |
| Burst Pressure | 3 Times | Full Scale |
| Supply Current Peak | 0.250 | Amp |
| Supply Voltage | 12 to 30 | Volts DC |
| Electrical Connections | 8 Pin | Mini Din |
| Input /Output Signal Standard | RS-232 Serial & 0-5Vdc, 0-10Vdc | |
| Warm-up Time | < 1 | Second |
| Wetted Materials | 302 & 303 Stainless Steel, Viton®. Silicone RTV, Silicon, Glass. All Controllers add: 400 Series Stainless Steel. PC Series Controllers only add: Brass | |
| Mechanical Dimensions | Mechanical Connections ¹ | Controllers |
| Pressure Controller | APC- 1/8" Female Gauge-Terminal Connection | 4.1"H x 3.6"W x 1.1"D |

| Selectable Units of Measure | | |
|-----------------------------|--------|------|
| TORR | PSIA | PSIG |
| In HG | In H2O | ATM |
| mmHG | MBAR | kPA |

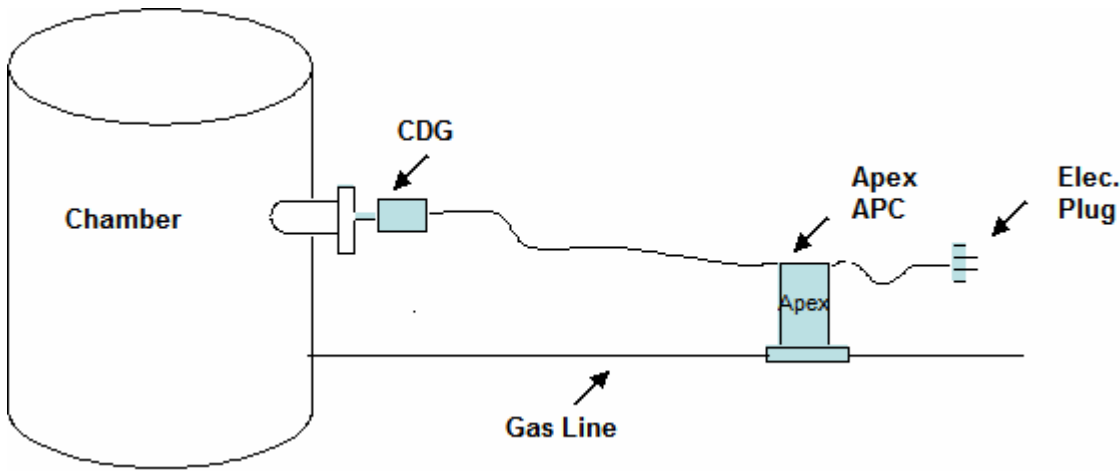
Other Apex Products-Mass Flow Controllers and Meters



CDG Vacuum Gauge Cable Information

DC-251: This 8-pin circular mini-din connector cable is 25' long and has 1 male mating connector. The opposite end is blunt cut with color-coded wires.

Example of Apex Pressure Controller Set-up



Part Number Generator

AX-APC- [] - D - [] - []

| | | |
|---|---|---|
| <p>Pressure 10 Torr 20 Torr 100 Torr 200 Torr 1000 Torr</p> | <p>Input 5 IN= 0-5V Input 10 IN= 0-10V Input</p> | <p>Fitting 4T = 0.5" OD Tube N0 = NW10 N1 = NW16 N2 = NW25 D8 = 8 VCR®, Female swivel 2T = 1/4" O.D. Tube D4 = 4 VCR Female Swivel 2M = 1/4 NPT Male WO= No Gauge</p> |
|---|---|---|

Gauge Outline Drawings

