



203-6(24)P Electronic Transducer

Description

The 203-6(24)P Series electronic transducer samples the static pressure of an air distribution system and converts the pneumatic static pressure value to Volts DC. The pressure can be positive or negative to the atmospheric pressure.

Typically, the static pressure “pick-up” probe samples the static pressure of the system that accurately furnishes the pressure to the transducers "High" side port for positive pressure readings. The "Low" side port is vented to the atmosphere.

The static pressure pickup may be connected to the transducers "Low" side port for negative pressure readings. The "High" side port is vented to the atmosphere.

The transducer can also be used as a pressure differential controller. In this application the transducer ports would be used to sense a positive or “HI” side pressure and a negative or “LOW” side pressure, neither of which would necessarily reference atmospheric pressure.

The range the transducer can function over is zero W.G. to 1”WG, 2”WG, 3”WG or 4”WG as shown in Figure 1. Each range can be factory or field calibrated to provide a 2 V DC to 10V DC output. Other custom ranges are available; consult the factory for your requirements.

Each range is designed with a alpha letter that represents the specific ranges that the transducer is calibrated to.

The transducer requires a non-interrupted 24V AC power supply. The transducer is pre-calibrated and temperature compensated at 0.25% FSO including effects of non-linearity, hysteresis and repeatability.

When the 2V-10V DC output is furnished as an input to a 709 Series Variable Speed Drive with 265-PI Interface, the selected set point (in pressure) can be controlled specifically to that setpoint, without signal error. This allows the variable speed drive to operate at any RPM to hold setpoint.

Specifications

Models:

203-6A(24)P	0 - 1.0" WG
203-6B(24)P	0 - 2.0" WG
203-6C(24)P	0 - 3.0" WG
203-6D(24)P	0 - 4.0" WG

Volts, Input (nominal)	20-30V AC
Power @ 24V AC	1.3VA
Frequency	50/60 Hz
Pressure Span, Zero WG up to	4.0" WG
Output	
Terminal: Gnd. - Out	2.0 - 10.0V DC
Minimum Load Resistance	10K
Maximum Wire Length (twisted pair)	100ft
Accuracy	1.25%
Repeatability	2.5% YR
Operating Temperature	32° - 140°F
Storage	-13° - 176°F
Humidity (Non Condensing) Max.	95% RH

Pressure (W.G.) vs. DC Voltage Output Curves

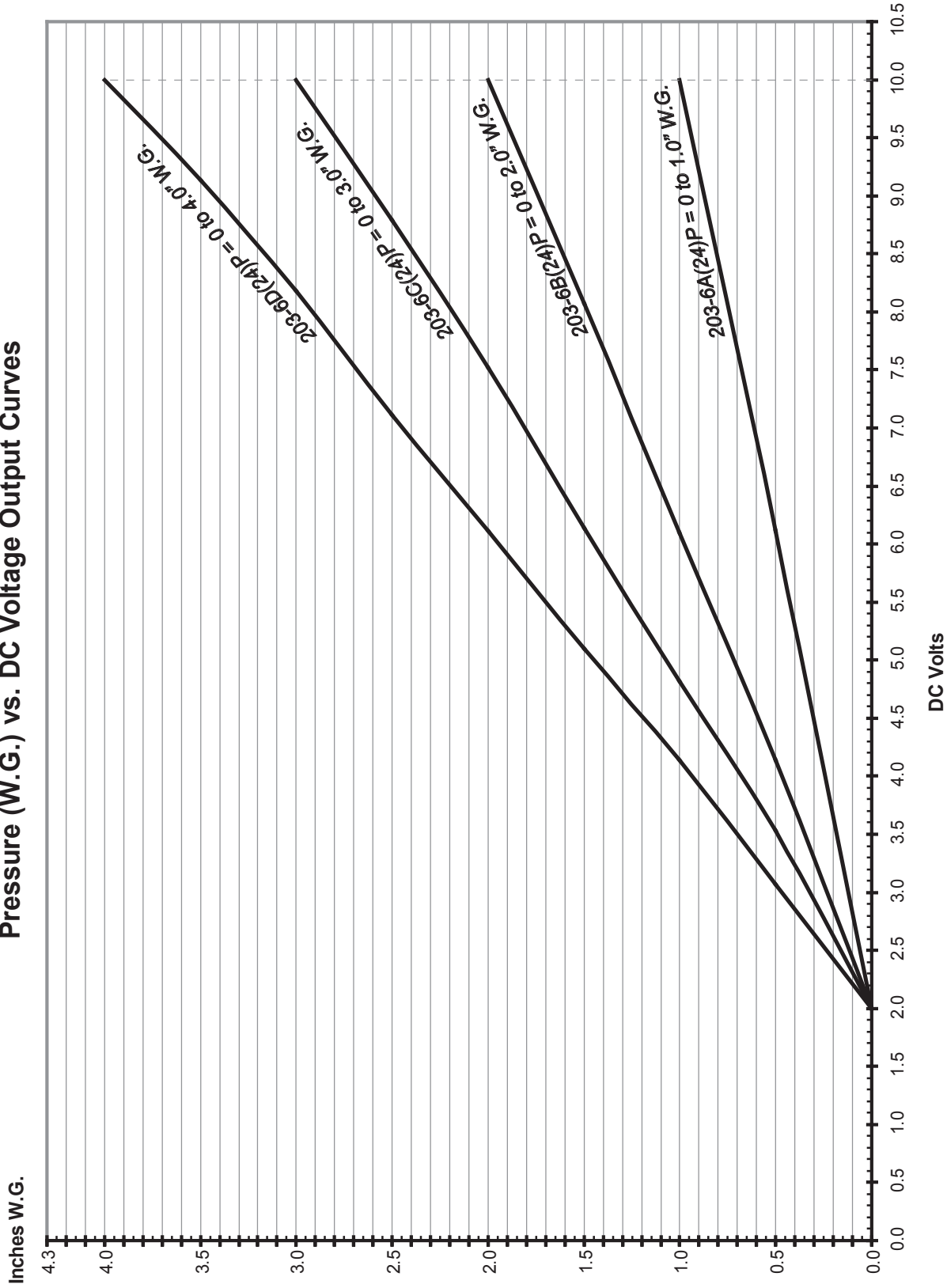


Figure 1 - 203-6 Series Output Response Curves