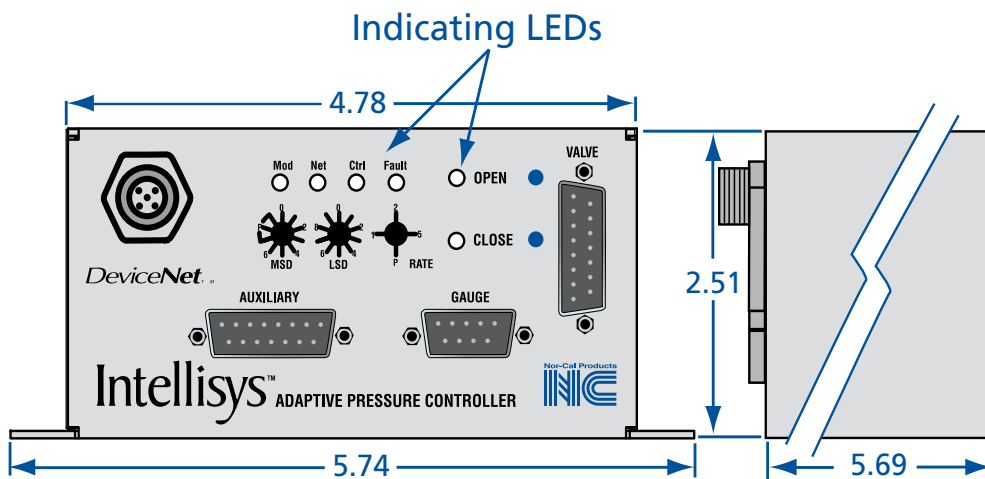


# Downstream Pressure Control - Adaptive Pressure Controllers (APC) +24 VDC with DeviceNet™



MODEL NUMBER	FOR USE WITH	BATTERY BACK-UP	WEIGHT
APC-100L-D	Geared Butterfly Valves (TBV-G-xxx)	NO	1.6 (0.7)
APC-100L-DB	Geared Butterfly Valves (TBV-G-xxx)	YES	2.5 (1.1)
APC-200L-D	Direct Drive Butterfly Valves (TBV-D-xxx)	NO	1.6 (0.7)
APC-200L-DB	Direct Drive Butterfly Valves (TBV-D-xxx)	YES	2.5 (1.1)
APC-300L-D	Sealing Butterfly Valves (TBVS-G-xxx)	NO	1.6 (0.7)
APC-300L-DB	Sealing Butterfly Valves (TBVS-G-xxx)	YES	2.5 (1.1)
APC-700L-D	SoftShut Linear Gate Valves (TSS-xxx)	NO	1.6 (0.7)
APC-700L-DB	SoftShut Linear Gate Valves (TSS-xxx)	YES	2.5 (1.1)
APC-800L-D	Pendulum Valves (TPV-xxx)	NO	1.6 (0.7)
APC-800L-DB	Pendulum Valves (TPV-xxx)	YES	2.5 (1.1)



## SPECIFICATIONS

### General Operation

**Compatible valves:** Intellisys throttling butterfly, pendulum or gate valve.  
**100-series** for geared butterfly valves  
**200-series** for direct drive butterfly valves  
**300-series** for sealing butterfly valves  
**700-series** for throttling SoftShut valves  
**800-series** for throttling pendulum valves

**Construction material (chassis):** 5052-aluminum

**Power input:** +24 VDC +/- 10%, 100W max (60W nominal) power input.

**Battery Back-up:** Optional

**Ambient operating conditions:** 0 - 45°C @ 0 - 95% humidity, non-condensing

### System Interfaces

**Serial communication:** RS-232 or RS-485 on DB-15 female connector.

**Analog/TTL communication:** N/A

**DeviceNet communication:** Micro-style 5-pin male connector

**Analog setpoint input:** N/A

**Pressure output:** 0-10 VDC analog output proportional to pressure, one for each vacuum gauge attached

**Valve position output:** 0-10 VDC or 0-5 VDC analog output proportional to valve position.

### Device Interface

**Gauge connection:** Differential analog signal input with ±15 VDC power output to one or two gauges

**Valve connection:** DB-15 female connector provides power and transmits position information required to operate the high performance valve.

### User Interface

**Switches:** Valve OPEN & CLOSE, and multi-position rotary switches for communications settings

**Indicating LEDs:** Power, Fault, Control, Valve open and closed, DeviceNet Mod and Net

**Graphic display:** N/A

### Pressure Control Performance

**Accuracy:** The greater of 5 mV or 0.25% of reading

**Repeatability:** Within 2.5 mV or 0.12% of reading

**Control range:** 0.5% - 100% of the vacuum gauge range

### Reliability

(99% confidence level, in clean environment)

**MTBF:** >50,000 hours continuous operation

### Approvals

**CE** (EMC and Low Voltage Directives)