

Pressure Specifications

Specification	760A/760S-LLP	760A/760S-D	760A/760S-MA
Max Pressure Range	±30 inH ₂ O (±75 mbar)	-12.5 to 35 psi (-0.86 to 2.5 bar)	-12.5 to 375 psig (-0.86 to 25 bar.g)
Accuracy	0.05%FS ^[1]	0.01%FS or 0.02% ^[1]	0.01%FS or 0.02%FS ^{[1][3]}
Stability	0.005%FS ^[2]	0.005%FS ^[2]	0.005%FS ^[2]
Pressure Type	Differential, Gauge	Differential, Gauge	Gauge, Absolute
Over Range Indication	120%		
Resolution	6 digits		
Measurement Units	Pa, hPa, kPa, mPa, bar, mbar, psi, mmHg@0°C, cmHg@0°C, mHg@0°C, inHg@0°C, inH ₂ O@4°C, mmH ₂ O@4°C, cmH ₂ O@4°C, mH ₂ O@4°C, mmH ₂ O@20°C, cmH ₂ O@20°C, mH ₂ O@20°C, mH ₂ O@68°F, inH ₂ O@20°C, kgf/cm2, mtorr, torr, lb/ft2, tsi, custom		
Barometric Accuracy	N/A	N/A	55 Pa ^[4]
Connection	Barb fitting	Hose, 5 ft (1.5 m), with built-in filter to 1/4BSPF, 1/4NPTF, and M20F adapters	Hose, 5 ft (1.5 m), with built-in filter to 1/4BSPF, 1/4NPTF, and M20F adapters
Pressure Output Rate	<30 Seconds (30 inH ₂ O / 100 ml)	<10 Seconds (35 psi / 5 ml)	<90 Seconds (300 psi / 5 ml)

[1] FS specification applies to the span of the module range.

[2] Stability based on FS of the internal pressure module. Stability is 0.005%FS or 0.05 pa whichever is greater. Internal module is switchable.

[3] Specification based on gauge measurement. An additional 55 pa uncertainty will need to be included when measuring in absolute mode.

[4] 55 Pa uncertainty (k=2) includes calibration uncertainty, linearity, and long-term stability (<30 Pa per year). Barometer range of 60 to 110 kPa.

Electrical Specifications (ADT760A)

Specification	Range	Resolution	Accuracy	Note
mA Measure	± 30 mA	0.0001 mA	0.01%RD + 1.5 µA	Impedance <10 Ω
V Measure	± 30 V	0.0001 V	0.01%RD + 1.5 mV	Impedance >1 MΩ
mA Source	24 mA	0.001 mA	0.01%RD + 1.2 µA	20 mA @ 1 K
Loop Power Source	24 V	N/A	± 1 V	50 mA (Max Loading)
Pressure Switch	Open, close. Support for mechanical switches and NPN/PNP digital switches.			
Temperature Compensation	8 °C to 38 °C			
Temperature Coefficient	< ± (0.001%RD + 0.001%FS) / °C outside of 8°C to 38°C			