



# RSV Pressure Transmitter



The Anderson RSV Pharmaceutical Series Pressure Transmitter offers not only a new low profile design, but may be ordered with built-in LCD indication. The unit meets all pharmaceutical requirements for performance, finish and cleanability. It is designed and manufactured to withstand the harsh process and sterilization conditions encountered in the pharmaceutical and biotechnology industries.

Its one-piece stainless steel package design incorporates a transducer and electronic circuitry to convert pressure and/or vacuum to a proportional 4-20 mA signal. The wide variety of fittings and ranges provide flexibility in specifying the best transmitter for any application. The unit is designed to operate at high process temperatures and withstand CIP/

SIP conditions.

All units are supplied factory calibrated to standard or custom ranges. For field maintenance, non-interactive zero, and span adjustments, as well as field accessible test points are provided. The optional LCD cap mounted display can be scaled to match actual process units, 0-100% of full scale, or 4-20 mA. This useful feature provides indication directly at the process, in addition to the standard 4-20 mA output. Permanently marked tagging is provided at no extra charge. In addition the RSV complies with Class 1, Div. 1, Groups A, B, C and D for intrinsically safe apparatus. Units are supplied with certificates of calibration.

## SPECIFICATIONS

### Excitation:

9-32 VDC (Absolute), 24 VDC Nominal regulated or unregulated  
14-37 VDC (Absolute) with display

### Output:

4-20 mA DC

### Loop Resistance:

0-750 ohms at 24 VDC  
0-1050 ohms at 30 VDC

### Indication:

Optional, 3 1/2 digit, .5" high LCD, cap mounted

### Accuracy:

± 0.5% of span, full scale, for standard ranges except those below  
0-50 psig (±1.0% full scale. All vacuum/pressure ranges and PSIA ranges are ±1.0%)

### Over-Range Rating:

2 times base range

### Stability:

± 0.3% of calibrated range / 6 months

### Zero and Span Adjustments:

± 10% of range

### Repeatability:

± 0.3%

### Hysteresis:

± 0.1%

### Linearity:

± 0.1%

### Process Temperature Range:

20° to 275°F (Up to 325°F if horizontal mount)

### Process Temperature Effect:

± 0.1 psig/5.5°C (10°F)

### Ambient Temp. Operating Range:

-17.8° to 48.9°C (0° to 120°F)

### Storage Temperature:

-40° to 65°C (-40° to 149°F)

### Mounting:

Direct connection

### Housing Material:

304 Stainless Steel

### Housing Ratings:

NEMA 4X, IP66

### Wetted Parts:

316L Stainless Steel standard; Hasteloy "C" diaphragm optional

### Surface Finish (wetable parts):

R<sub>a</sub> max = 8 microinches (.2 microns) electropolished

### Recommended Cable:

18-24 AWG, foil shielded, and PVC coated.  
(3/16 - 1/4 OD insulation)

### Wiring Connection:

Screw Terminal; Accessible via removable screw cap conduit housing

### Approvals:

UL Approved; Complies with Class 1, Div. 1, Grps. A-D for intrinsically safe apparatus

### Standard:

Designed and manufactured to sound engineering practices in accordance with Article 3.3 of the PED 97/23/EC  
CSA B51-03  
CRN# CSA0F9754.5C

### Response Time:

200 µSec

\* Specifications are subject to change without notice.

# Complete Product Ordering Matrix

	S	V								2			
	<b>RANGE</b>											<b>CABLE LENGTH</b>	
025			30/0	(M)								00	No Cable
028			30"Hg/0/15 psig	(C)								05	25'
029			30"Hg/0/30 psig	(C)								10	50'
031			30"Hg/0/60 psig	(C)								15	75'
032			30"Hg/0/100psig	(C)								20	100'
066			0/30	(G, A)								24	200'
068			0/50	(G, A, B)								A0	Quick Disconnect Receptacle(QDR)*
069			0/60	(G,A)								A1	QDR & Field Wireable Connector(FWC)*
071			0/100	(G, A)								A2	QDR w/25 ft Molded Cordset*
073			0/150	(G, A)								A3	QDR w/50 ft Molded Cordset*
074			0/160	(G, A)								A5	QDR w/100 ft Molded Cordset*
077			0/300	(G, A)								A9	QDR w/200 ft Cable*
081			0/500	(G)									
084			0/1000	(G)									
251			-1/0/1 BAR	(B)									
286			-1/0/2.5 BAR	(B)									
217			-1/0/3 BAR	(B)									
056			-1/0/4 BAR	(B)									
304			-1/0/7 BAR	(B)									
235			0-3 BAR	(B)									
192			0-4 BAR	(B)									
061			0-10 BAR	(B)									
065			0-20 BAR	(B)									
	<b>ENGINEERING UNITS</b>												
G			PSIG (Gauge)										
M			Hg (inches Mercury - Vacuum)										
A			PSIA (Absolute)										
B			BAR (Gauge)										
C			Vacuum/Pressure Compound (Hg & PSIG)										
T			BAR (Absolute)										
	<b>FITTING</b>												
002			3/4" Tri-Clamp®										
004			1 1/2" Tri-Clamp®										
005			2" Tri-Clamp®										
010			1 1/2" APC "K"										
011			2" APC "K"										
016			1 1/2" Cherry "I" (male)										
017			2" Cherry "I" (male)										
027			1 1/2" G & H "H" line (male)										
028			2" G & H "H" Line (male)										
123			Anderson "CPM" Flushmount										
161			Anderson Mini "CPM" Flushmount										
	<b>DISPLAY VALUE</b>												
0			None										
G			PSIG										
A			PSIA										
B			BAR										
R			mA (milliamphere, for vac/press.)										
Q			% (percent, for vac/press.)										
	<b>DIAPHRAGM MATERIAL</b>												
1			316L Stainless	NOT AVAILABLE WITH FITTINGS "002" or "161"									
2			Hastelloy "C"										
	<b>DIAPHRAGM FINISH</b>												
2			Electropolished (R <sub>a</sub> 8)										

\* UL Certification for Intrinsic Safety Pending



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SPECIFY TAGGING INFORMATION TO BE PERMANENTLY MARKED, IF APPLICABLE

MEETS OR EXCEEDS CGMP'S OF THE PHARMACEUTICAL INDUSTRY

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