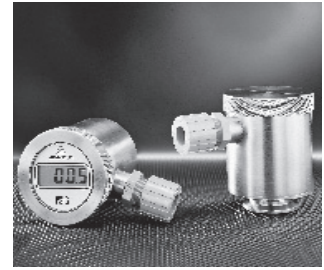




# RSV Pressure Transmitter



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											00	No Cable
028											05	25'
029											10	50'
031											15	75'
032											20	100'
066											24	200'
068											A0	Quick Disconnect Receptacle(QDR)*
069											A1	QDR & Field Wireable Connector(FWC)*
071											A2	QDR w/25 ft Molded Cordset*
073											A3	QDR w/50 ft Molded Cordset*
074											A5	QDR w/100 ft Molded Cordset*
077											A9	QDR w/200 ft Cable*
081												
084												
251												
286												
217												
056												
304												
235												
192												
061												
065												
	<b>ENGINEERING UNITS</b>											
G												
M												
A												
B												
C												
T												
	<b>FITTING</b>											
002												
004												
005												
010												
011												
016												
017												
027												
028												
123												
161												
	<b>DISPLAY VALUE</b>											
0												
G												
A												
B												
R												
Q												
	<b>DIAPHRAGM MATERIAL</b>											
1												
2												
	<b>DIAPHRAGM FINISH</b>											
2												

\* UL Certification for Intrinsic Safety Pending

SPECIFY TAGGING INFORMATION TO BE PERMANENTLY MARKED, IF APPLICABLE



**ANDERSON INSTRUMENT CO., INC.**  
 156 Auriesville Road  
 Fultonville, NY 12072 USA  
 1-800-833-0081 • FAX 516-922-8997  
**ANDERSON INSTRUMENT CO. LP**  
 400 Britannia Road East, Unit 1  
 Mississauga, Ontario L4Z1X9 Canada  
 905-568-1440 • FAX 905-568-1652  
**NEGELE MESSTECHNIK GmbH**  
 (A Division of Anderson)  
 Raiffeisenweg 7  
 D-87743 Egg a. d. Günz Germany  
 +49 (0) 8333/9204-0 • FAX +49 (0) 8333/9204-49

[www.andinst.com](http://www.andinst.com)

MEETS OR EXCEEDS CGMP'S OF THE PHARMACEUTICAL INDUSTRY

Form AIC 3562 © 2/04  
 Revised: January 2011  
 Supersedes: August 2010