FLOW
LEVEL
PRESSURE
ANALYTICAL
TEMPERATURE
INSTRUMENTATION
PASTEURIZATION CONTROLS

# Model RSP Sanitary Electronic Pressure Transmitter

***All-welded stainless steel construction***

***Compact, low profile design***

***Meets all FDA, USDA, and CGMP requirements***

***3-A compliant; Third party verified in accordance with standard 74-02***

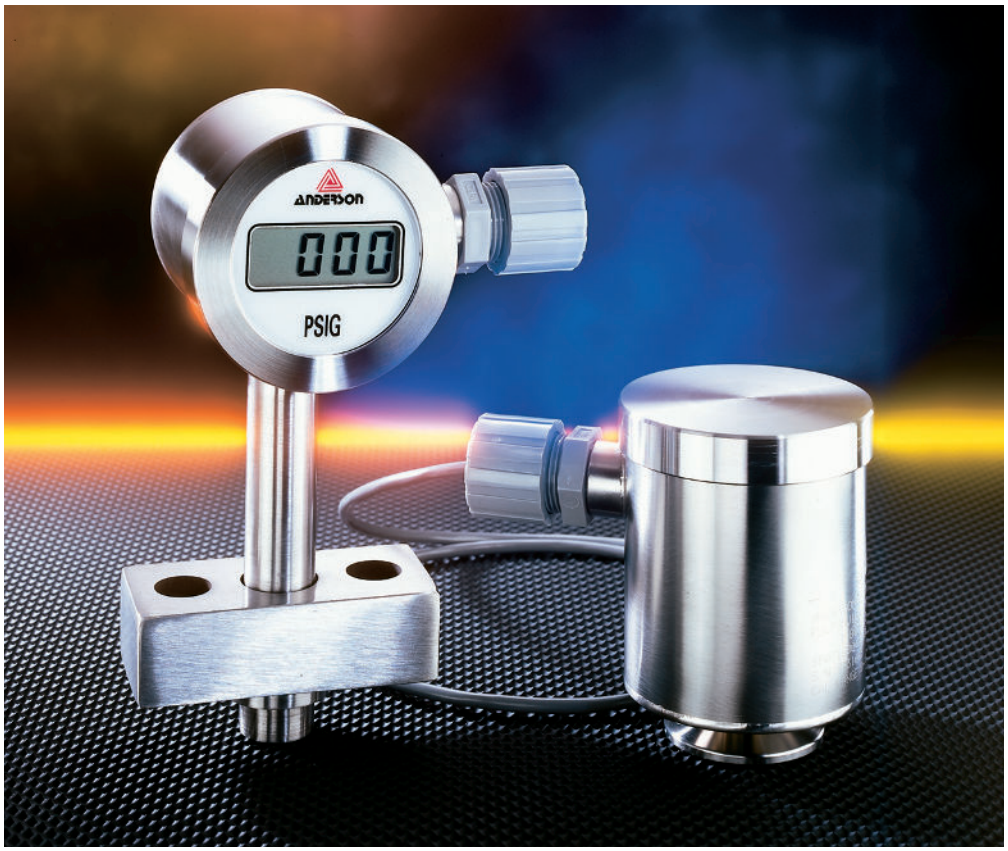
***Product contact surface 316L stainless steel, optional Hasteloy "C" diaphragm***

***Optional cap mounted LCD indicator***

The Anderson RSP offers not only a low profile design, but may be ordered with built-in LCD indication. The unit meets all sanitary requirements for finish and cleanability. It is designed and manufactured to withstand the harsh process and environmental conditions encountered in the food, dairy, 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.

Complete specifications and ordering information are available on the reverse. For more information please visit our Web Site at www.andinst.com, or contact your local Authorized Anderson Distributor.

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# RSP Specifications

| | |
|---|---|
| Accuracy (includes repeatability, linearity, and hysteresis): | ± 0.5% of span, full scale, for standard ranges except ranges below 0-50 psig ±1% full scale. All vacuum/pressure ranges and PSIA ranges are ±1%. High pressure (Homogenizer) fittings: ±.75%. |
| Repeatability: | Better than 0.3% FSO |
| Hysteresis: | Less than 0.2% FSO |
| Linearity (BFSL): | ± 0.2% FSO |
| Stability: | ± 0.3% of calibrated range/6 months |
| Over-Range Rating: | 2 times base range, or 12,000 psig, whichever is less |
| Zero and Span Adjustments: | ± 10% of range |
| Output: | 4-20 mA DC |
| Excitation: | 12-40 VDC (Absolute), 24 VDC Nominal regulated or unregulated. 17-45 VDC (Absolute) with display. |
| Loop Resistance: | 0-600 ohms at 24 VDC<br>0-900 ohms at 30 VDC |
| Indication: | Optional, 3-1/2 digit, .5" high LCD, cap mounted |
| Process Temperature Range: | 20° to 300°F (-6.7 to 148.9°C) (Horizontal mounting recommended for continuous operation over 275°F/135°C) |
| Process Temperature Effect: | ±0.1 psig/5.5°C (10°F) |
| Response Time: | 200 µSec |
| Ambient Temp. Operating Range: | 0° to 120°F (-17.8° to 48.9°C) |
| Storage Temperature: | -40° to 149°F (-40° to 65°C) |
| Mounting: | Direct connection |
| Housing Material: | 304 Stainless Steel |
| Housing Ratings: | NEMA 4X, IP-66 |
| Wetted Parts: | 316L Stainless Steel standard; Hasteloy "C" diaphragm optional (Std. for homogenizer fittings) |
| Surface Finish (wettable parts): | $R_a$ max = 25 microinches (.6 microns) |
| 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 |
| Standards: | Designed and manufactured to sound engineering practices in accordance with Article 3.3 of the PED 97/23/EC |

## HOW TO ORDER

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### RANGE (Available Units)

| | | | |
|---|---|---|---|
| 025 | 30/0 (M) | 086 | 0/2,000* (G) |
| 028 | 30/0/15 (C) | 088 | 0/3,000* (G) |
| 029 | 30/0/30 (C) | 090 | 0/5,000* (G) |
| 031 | 30/0/60 (C) | 093 | 0/10,000* (G) |
| 032 | 30/0/100 (C) | 094 | 0/15,000*** (G) |
| 066 | 0/30 (G,A) | 095 | 0/20,000*** (G) |
| 068 | 0/50 (G,A,B) | 251 | -1/0/1 (B) |
| 069 | 0/60 (G) | 286 | -1/0/2.5 (B) |
| 070 | 0/99 (G) | 217 | -1/0/3 (B) |
| 071 | 0/100 (G,A) | 056 | -1/0/4 (B) |
| 073 | 0/150 (G,A) | 304 | -1/0/7 (B) |
| 074 | 0/160 (G,A) | 057 | 0-2 (B) |
| 075 | 0/200 (G,A) | 235 | 0-3 (B) |
| 077 | 0/300 (G,A) | 192 | 0-4 (B) |
| 081 | 0/500 (G) | 060 | 0-6 (B) |
| 084 | 0/,1000 (G) | 061 | 0-10 (B) |
| | | 065 | 0-20 (B) |

### ENGINEERING UNITS

| | |
|---|---|
| G | PSIG |
| M | Hg (inches Mercury) |
| A | PSIA |
| B | BAR |
| C | Vacuum/Pressure ("Hg & PSIG) |

### FITTING

| | |
|---|---|
| 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) |
| 044 | 1-1/2" #14 Bevel Seat (w/nut) |
| 045 | 2" #14 Bevel Seat (w/nut) |
| 056 | High Pressure (Homogenizer) w/out Flange |
| 057 | High Pressure (Homogenizer) with 7/8" Flange |
| 058 | High Pressure (Homogenizer) with 1-1/8" Flange |
| 059 | 1-1/2" NPT |
| 117 | High Pressure (Rannie) |
| 129 | 38mm IDF w/Nut |
| 131 | 51mm IDF w/Nut |
| 157 | High Pressure (Niro) |

### CABLE LENGTH

| | |
|---|---|
| 00 | No Cable |
| 05 | 25' |
| 10 | 50' |
| 15 | 75' |
| 20 | 100' |
| 24 | 200' |
| A0 | Quick Disconnect Receptacle (QDR) |
| A1 | QDR & Field Wireable Connector (FWC) |
| A2 | QDR w/25 ft Molded Cordset |
| A3 | QDR w/50 ft Molded Cordset |
| A5 | QDR w/100 ft Molded Cordset |
| A9 | QDR w/200 ft Cable |

### DIAPHRAGM FINISH

| | |
|---|---|
| 1 | Standard ($R_a$25) |

### DIAPHRAGM MATERIAL

| | |
|---|---|
| 1 | 316L Stainless |
| 2 | Hastelloy "C" (Standard for fittings 056, 057, 058, 117, 157) |

### DISPLAY VALUE

| | |
|---|---|
| 0 | None |
| G | PSIG** |
| A | PSIA |
| B | BAR |
| R | mA (milliamphere, for vac/press.) |
| Q | % (percent, for vac/press.) |

* Available with High Pressure Fittings Only (056-059; 117, 157).
** If over 1,000 PSIG, units are PSIG X 10.
*** Available with High Pressure Fitting 157 Only

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