

LCD display CONFIGURATION (Software Adjustable – M5 or M6 option must be specified in model number)

Meter Display Type⁽⁴⁾:

Eng. Units only	Alternate Eng. Units &% of Range
% of Range only	Alternate Eng. Units & Custom Display ⁽⁵⁾
Custom Display only	<input type="checkbox"/> Alternate % of Range & Custom Display ⁽⁵⁾

Custom Display Configuration: (must be filled out if Custom Display is selected as meter type)

Decimal Point Position (fixed)— indicate decimal point location: X_□ X_□ X_□* X X

Enter Lower Range Value (Decimal point must be in the same position as specified above.)
(circle sign) + - □□□□□□□□ +000.00

Enter Upper Range Value (Decimal point must be in the same position as specified above.)
(circle sign) + - □□□□□□□□ +100.00

Custom Units—spaces consume A-Z, 0-9, /, *, %, blank
□□□□□ %RNGE

Custom Display Transfer Function (Independent of Analog Output)
 Linear Square Root

HARDWARE SELECTABLE INFORMATION

Alarm Option: High Low
Transmitter Security: Off On

Note: Specify C4 Option in model structure when ordering NAMUR-compliant alarm and saturation limits.⁽⁵⁾

SIGNAL SELECTION: (Software Selectable)

4–20 mA with simultaneous digital signal based on HART protocol
Burst mode of HART digital process variable ⁽⁴⁾

Burst mode output options:
Primary variable in engineering units
Primary variable in percent of range
All dynamic variables in engineering units and the primary variable mA value

Multidrop Communication⁽⁴⁾⁽⁶⁾ Choose transmitter address⁽⁷⁾ (1-15): _____

(4) C1 option required for configuration of this parameter.
(5) Not available with low power output.
(6) This option fixes the transmitter analog output at 4mA.
(7) Default address is 1 if multidrop communication is selected.

3051C Differential/Gage Pressure Transmitter Range Limits										
Units	Range 1 Span		Range 2 Span		Range 3 Span		Range 4 Span		Range 5 Span	
	min	max	min	max	min	max	min	max	min	max
inH ₂ O	0.5	25	2.5	250	10	1000	83.040	8304	553.60	55360
inHg	0.03678	1.8389	0.18389	18.389	0.73559	73.559	6.1081	610.81	40.720	4072.04
ftH ₂ O	0.04167	2.08333	0.20833	20.8333	0.83333	83.3333	6.9198	691.997	46.13	4613.31
mmH ₂ O	12.7	635.5	63.553	6355	254	25421	2110.95	211095	14073	1407301
mmHg	0.93416	46.7082	4.67082	467.082	18.6833	1868.33	155.145	15514.5	1034.3	103430
psi	0.01806	0.903	0.0902	9.03183	0.36127	36.127	3	300	20	2000
bar	0.00125	0.06227	0.00623	0.62272	0.02491	2.491	0.20684	20.6843	1.37895	137.895
mbar	1.2454	62.2723	6.22723	622.723	24.9089	2490.89	206.843	20684.3	1378.95	137895
g/cm ²	1.26775	63.3875	6.33875	633.875	25.355	2535.45	210.547	21054.7	1406.14	140614
kg/cm ²	0.00127	0.0635	0.00635	0.635	0.0254	2.54	0.21092	21.0921	1.40614	140.614
Pa	124.545	6227.23	622.723	62160.6	2490.89	249089	20684.3	2068430	137895	13789500
kPa	0.12545	6.2272	0.62272	62.2723	2.49089	249.089	20.6843	2068.43	137.895	13789.5
torr	0.93416	46.7082	4.67082	467.082	18.6833	1868.33	155.145	15514.5	1034.3	103430
atm	0.00123	0.06146	0.00615	0.61460	0.02458	2.458	0.20414	20.4138	1.36092	136.092

When using a HART communicator, ±5% adjustment is allowed on the sensor limit to allow for unit conversions.

3051L/3051H Pressure Transmitter Range Limits									
Units	Range 2 Span		Range 3 Span		Range 4 Span		Range 5 Span		
	min	max	min	max	min	max	min	max	
inH ₂ O	2.5	250	10	1000	83.040	8304	553.60	55360	
inHg	0.18389	18.389	0.73559	73.559	6.1081	610.81	40.720	4072.04	
ftH ₂ O	0.20833	20.8333	0.83333	83.3333	6.9198	691.997	46.13	4613.31	
mmH ₂ O	63.553	6355	254	25421	2110.95	211095	14073	1407301	
mmHg	4.67082	467.082	18.6833	1868.33	155.145	15514.5	1034.3	103430	
psi	0.0902	9.03183	0.36127	36.127	3	300	20	2000	
bar	0.00623	0.62272	0.02491	2.491	0.20684	20.6843	1.37895	137.895	
mbar	6.22723	622.723	24.9089	2490.89	206.843	20684.3	1378.95	137895	
g/cm ²	6.33875	633.875	25.355	2535.45	210.547	21054.7	1406.14	140614	
kg/cm ²	0.00635	0.635	0.0254	2.54	0.21092	21.0921	1.40614	140.614	
Pa	622.723	62160.6	2490.89	249089	20684.3	2068430	137895	13789500	
kPa	0.62272	62.2723	2.49089	249.089	20.6843	2068.43	137.895	13789.5	
torr	4.67082	467.082	18.6833	1868.33	155.145	15514.5	1034.3	103430	
atm	0.00615	0.61460	0.02458	2.458	0.20414	20.4138	1.36092	136.092	

When using a HART communicator, ±5% adjustment is allowed on the sensor limit to allow for unit conversions.

3051T Gage and Absolute Pressure Transmitter Range Limits										
Units	Range 1 Span		Range 2 Span		Range 3 Span		Range 4 Span		Range 5 Span	
	min	max	min	max	min	max	min	max	min	max
inH ₂ O	8.30397	831.889	41.5198	4159.45	221.439	22143.9	1107.2	110720	55360	276799
inHg	0.61081	61.0807	3.05403	305.403	16.2882	1628.82	81.441	8144.098	4072.04	20360.2
ftH ₂ O	0.69199	69.3241	3.45998	345.998	18.4533	1845.33	92.2663	9226.63	4613.31	23066.6
mmH ₂ O	211.10	21130	1054.60	105460.3	5634.66	563466	28146.1	2814613	1407301	7036507
mmHg	15.5145	1551.45	77.5723	7757.23	413.72	41372	2068.6	206860.0	103430	517151
psi	0.3	30	1.5	150	8	800	40	4000	2000	10000
bar	0.02068	3.06843	0.10342	10.3421	0.55158	55.1581	2.75791	275.7905	137.895	689.476
mbar	20.6843	2068.43	103.421	10342.11	551.581	55158.1	2757.91	275790.5	137895	689476
g/cm ²	21.0921	2109.21	105.461	10546.1	561.459	56145.9	2807.31	280730.6	140614	703067
kg/cm ²	0.02109	2.10921	0.10546	10.5461	0.56246	56.2456	2.81228	281.228	140.614	701.82
Pa	2068.43	206843	10342.1	1034212	55158.1	5515811	275791	27579054	13789500	68947600
kPa	2.06843	206.843	10.3421	1034.21	55.1581	5515.81	275.791	27579.05	13789.5	68947.6
torr	15.5145	1551.45	77.5726	7757.26	413.721	413721	2068.6	206859.7	103430	517151
atm	0.02041	2.04138	0.10207	10.2069	0.54437	54.4368	2.72184	272.1841	136.092	680.46

When using a HART communicator, ±5% adjustment is allowed on the sensor limit to allow for unit conversions.

3051C Absolute Pressure Transmitter Range Limits									
Units	Range 1 Span		Range 2 Span		Range 3 Span		Range 4 Span		
	min	max	min	max	min	max	min	max	
inH ₂ O	8.30397	831.889	41.5198	4151.98	221.439	22143.9	1107.2	110720	
inHg	0.61081	61.0807	3.05403	305.403	16.2882	1628.82	81.441	8144.098	
ftH ₂ O	0.69199	69.3241	3.45998	345.998	18.4533	1845.33	92.2663	9226.63	
mmH ₂ O	211.10	21130	6.35308	635.308	5634.66	563466	28146.1	2814613	
mmHg	15.5145	1551.45	1055.47	105547	413.72	41372	2068.6	206860.0	
psi	0.3	30	1.5	150	8	800	40	4000	
bar	0.02068	2.06843	0.10342	10.342	0.55158	55.1581	2.75791	275.7905	
mbar	20.6843	2068.43	103.421	10342.1	551.581	55158.1	2757.91	275790.5	
g/cm ²	21.0921	2109.21	105.27	105.27	561.459	56145.9	2807.31	280730.6	
kg/cm ²	0.02109	2.10921	0.10546	10.546	0.56246	56.2456	2.81228	281.228	
Pa	2068.43	206843	10342.1	1034210	55158.1	5515811	275791	27579054	
kPa	2.06843	206.843	10.3421	1034.21	55.1581	5515.81	275.791	27579.05	
torr	15.5145	1551.45	77.5726	7757.26	413.721	413721	2068.6	206859.7	
atm	0.02041	2.04138	0.10207	10.207	0.54437	54.4368	2.72184	272.1841	

When using a HART communicator, ±5% adjustment is allowed on the sensor limit to allow for unit conversions.

Rosemount 3051

Product Data Sheet
00813-0100-4001, Rev GA
Catalog 2006 - 2007

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Rosemount Model 3051 Smart Pressure Transmitters may be protected by one or more of the following U.S. Patent Nos. 4,370,890; 4,466,290; 4,612,812; 4,791,352; 4,798,089; 4,818,994; 4,833,922; 4,866,435; 4,926,340; 4,988,990; and 5,028,746. Mexico Patentado No. 154,961. May depend on model. Other foreign patents issued and pending.

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