

Sanitary Process Transmitters

Model CIP-Ultra; Pressure and Tank Level

0-1 psi to 0-600 psi (41 bar)

ACCURACY TO 0.1%

TRACKS TEMPERATURE
CHANGES – 200° F./MINUTE

4-20 mA OUTPUT

500 μs PRESSURE
RESPONSE TIME

SECONDARY CONTAINMENT
EXCEEDS 1500 PSI (103 bar)



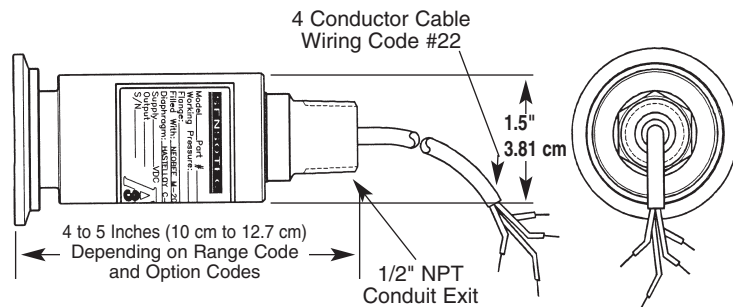
These sanitary process transmitters are manufactured in stainless steel and offer a variety of flanges, electrical connections, and operating temperatures designed to meet the environmental demands found in these applications:

- Food Processing
- Dairy & Cheese
- Beverage Processing
- Paint & Ink
- Clean-in-Place Systems
- Sanitizers and Cleaning Systems
- Pulp & Paper
- Pharmaceuticals
- Chemical Manufacturing
- Biological Systems
- Cosmetics, Perfumes
- Clean Gas Systems
- Microprocessor Industry

Dimensions

Accuracy	Order Code	Available Ranges
Model CIP-Ultra 0.1% Accuracy	CP100 (Gage) CP101 (Absolute)	1; 2.5; 5; 10; 15; 25; 50; 100; 200; 250; 400; 500; 600 psi 70; 175; 350; 700 mbar 1; 1.7; 3.4; 7; 14; 17; 27.5; 35; 41 bar
Model CIP-Ultra 0.25% Accuracy	CP200 (Gage) CP201 (Absolute)	1; 2.5; 5; 10; 15; 25; 50; 100; 200; 250; 400; 500; 600 psi 70; 175; 350; 700 mbar 1; 1.7; 3.4; 7; 14; 17; 27.5; 35; 41 bar
Model CIP-Ultra 0.5% Accuracy	CP300 (Gage) CP301 (Absolute)	1; 2.5; 5; 10; 15; 25; 50; 100; 200; 250; 400; 500; 600 psi 70; 175; 350; 700 mbar 1; 1.7; 3.4; 7; 14; 17; 27.5; 35; 41 bar

See Flange
Size Code Chart



1-800-848-6564

Honeywell
SENSOTEC

www.honeywell.com/sensing

Flanges

Flange Size Codes

Flange	Size		Option Code
	in.	cm	
Cherry-Burrell	1½"	3.81	16f
	2	5.08	16g
	2½	6.35	16h
	3	7.62	16i

Flange	Size		Option Code
	in.	cm	
Tri-Clover	1½	3.81	16b
	2	5.08	16c
	2½	6.35	16d
	3	7.62	16e

Options (See Appendix)

- Electrical termination 6j; 6m; 6n
- Potentiometer access for zero and span adjustment by instrumentation tech. Electrical termination is DIN 43650 Hirschmann plug; environmental class IP 65 (NEMA 4). Conduit attachment by PG 9 thread on plug.
- Hermetic glass/metal connector; Bendix PTIH-10-6P equivalent.
- Single pole 3 Hz filter for electrical damping. Helps remove vibration induced noises from pumps, stirrers, etc.

PERFORMANCE

	Gage CP100 Absolute CP101	Gage CP200 Absolute CP201	Gage CP300 Absolute CP301
Accuracy	0.1% BFSL	0.25% BFSL	0.5% BFSL
Pressure Ranges ¹			
1-1/2" Flange	0-5 to 0-600 psi	0-5 to 0-600 psi	0-5 to 0-600 psi
2" Flange	0-1 to 0-500 psi	0-1 to 0-500 psi	0-1 to 0-500 psi
2-1/2" Flange	0-1 to 0-400 psi	0-1 to 0-400 psi	0-1 to 0-400 psi
3" Flange	0-1 to 0-250 psi	0-1 to 0-250 psi	0-1 to 0-250 psi
Max. Flange Pressure	600 psi with 13MHHS clamp at 72° F, 1½" size.	600 psi with 13MHHS clamp at 72° F, 1½" size.	600 psi with 13MHHS clamp at 72° F, 1½" size.
Response Time (comb. elect. & mech.)	500 microseconds	500 microseconds	500 microseconds
Resolution	Infinite	Infinite	Infinite
Orientation sensitivity03 psi/G	.03 psi/G	.03 psi/G

ENVIRONMENTAL

Process Temp. ¹	-20° F to 260° F ²	-20° F to 260° F ²	-20° F to 260° F ²
Sensor Temp.	30° F to 180° F ³	30° F to 180° F ³	30° F to 180° F
Temp. Effect on combined Zero and Span errors: ⁴			
1-1/2", 2", 2-1/2" & 3" Flange....	1% FS/100° F (2% FS/100° F for 1 psi)	1% FS/100° F (2% FS/100° F for 1 psi)	1% FS/100° F (2% FS/100° F for 1 psi)

ELECTRICAL

Supply Voltage	13 to 32 VDC	13 to 32 VDC	13 to 32 VDC
Electrical Connection (Std.) 1-1/2", 2", 2-1/2" & 3" Flange....	1/2-14 Conduit Exit w/5 ft. Cable	1/2-14 Conduit Exit w/5 ft. Cable	1/2-14 Conduit Exit w/5 ft. Cable
Load Impedance (Max.)	950 ohm at 32 VDC	950 ohm at 32 VDC	950 ohm at 32 VDC
Zero Balance	4mA ± .16mA	4mA ± .16mA	4mA ± .16mA
Output (Standard)	4-20mA, 2-Wire	4-20mA, 2-Wire	4-20mA, 2-Wire
Wiring Code 1-1/2", 2", 2-1/2" & 3" Flange....	#22	#22	#22

MECHANICAL

Media	Steam, Ethylene Oxide, Liquid, Gas	Steam Ethylene Oxide, Liquid, Gas	Steam, Ethylene Oxide, Liquid, Gas
Wetted Parts	316-L Stainless, Hastelloy C-276	316-L Stainless, Hastelloy C-276	316-L Stainless, Hastelloy C-276
Fill Material	NEOBEE M-20	NEOBEE M-20	NEOBEE M-20
Weight (Nominal)	16 oz.	16 oz.	16 oz.
Case Material	316-L Stainless	316-L Stainless	316-L Stainless
Sanitary Std.	3-A, #37-01	3-A, #37-01	3-A, #37-01

- NOTES:** ¹ Higher ranges may be available for special applications. Consult SENSOTEC.
² Specifications may vary with flange size and pressure range. Consult SENSOTEC.
³ 30° F to 130° F for 1 psi range (-1° C to 54° C for 7 mbar range).
⁴ Temperature profile for heated vessels:

4 Temperature profile for heated vessels:			
Process temp	Sensor temp	Process temp	Sensor temp
260° F	180° F	126° C	82° C
200° F	145° F	93° C	63° C
150° F	120° F	65° C	49° C
100° F	90° F	38° C	32° C
75° F	75° F	24° C	24° C
50° F	65° F	10° C	18° C
0° F	40° F	-17° C	4° C
-20° F	30° F	-29° C	-1° C

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