- ±0.25% Test Gauge Accuracy
- 316L Stainless Steel Wetted Parts
- 1.5" or 2.0" Tri-Clamp®

- Keypad Setup with Pass Code Protection
- Selectable Units
- Store Minimum and Maximum Readings
- Food Processing

Quick Link: cecomp.com/san







Dairy and Breweries

Pharmaceutical

Specifications

Ranges and Resolution

See table below for standard ranges and units See table on next page for available engineering units Resolution is fixed for each engineering unit

Accuracy

Accuracy includes linearity, hysteresis, repeatability Accuracy: ±0.25% of full scale ±1 least significant digit Sensor hysteresis: ±0.015% FS, included in accuracy Sensor repeatability: ±0.01% FS, included in accuracy

3 readings per second nominal display update rate 4 digit LCD, 0.5" H and 5 character 0.25" H alphanumeric Red LED backlight active for 1 minute (user configurable)

Batteries, Battery Life, Low Battery Indication 2 AA alkaline

Up to 1500 hours depending on backlight usage Low battery symbol on display

Auto Shutoff

User selectable 1 minute to 8 hours or front button on/off Factory default 5 minutes, unless other time is specified

Controls and Functions

Three front buttons: zero/clear, on/off, min/max memory Zero button is for gauge reference models only

Memory

Minimum and/or maximum readings stored in memory Readings cleared or stored at shutoff User configurable

Calibration and Setup

Pass code protected setup and calibration via keypad Non-interactive zero, span, and linearity, ±10% of range

Sanitary Seal

3-A certified Tri-Clamp flush diaphragm sanitary seal NEOBEE® M-20 fill

All 316L stainless steel construction Optional electropolish passivation

Weight (approximate)

shipping: 3 lbs 1.5" gauge: 2 lbs 2.0" gauge: 2.5 lbs shipping: 3.5 lbs

Housing and Materials

NEMA 4X ABS/polycarbonate case, polycarb. label, rear gasket Conformal coating on circuit boards for moisture resistance.

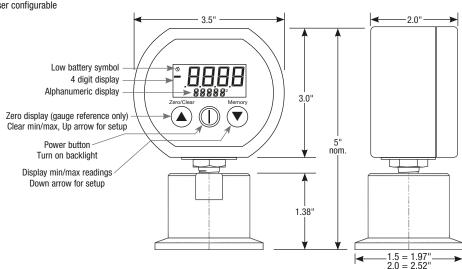
Maximum Working Pressure

2 X pressure range 1.5":

2 X pressure range or 550 psi for 300 psi sensor Maximum pressure dependent on type of clamping device I --- or I -.-.-112.5% FS out-of-range display:

Environmental

Storage temperature: -40 to 203°F (-40 to 95°C) -4 to 185°F (-20 to 85°C) Operating temperature: Compensated temperature: 32 to 158°F (0 to 70°C) Thermal effect due to fill: Up to 1.2 psi from 0 to 70°C Positional effect: Up to 0.14 psi



Default Range and Units See next page for additional units	Vacuum Service	1" or 1.5" Tri-Clamp	Max. psi*	2" Tri-Clamp	Max. psi*
-14.70 to 15.00 psig	Yes	DSGB315N±15PSIG	30 psig	DSGB320N±15PSIG	30 psig
-29.9 inHg to 15.0 psig	Yes	DSGB315N30V15PSIG	30 psig	DSGB320N30V15PSIG	30 psig
15.00 to 0 psi absolute	Yes	DSGB315N15PSIA	30 psig	DSGB320N15PSIA	30 psig
0 to 14.70 psig vacuum	Yes	DSGB315N15PSIGVAC	30 psig	DSGB320N15PSIGVAC	30 psig
0 to 15.00 psig	Yes	DSGB315N15PSIG	30 psig	DSGB320N15PSIG	30 psig
30.00 to 0 psi absolute	Yes	DSGB315N30PSIA	60 psig	DSGB320N30PSIA	60 psig
0 to 30.00 psig	No	DSGB315N30PSIG	60 psig	DSGB320N30PSIG	60 psig
0 to 60.00 psig	No	DSGB315N60PSIG	120 psig	DSGB320N60PSIG	120 psig
100.0 to 0 psi absolute	Yes	DSGB315N100PSIA	200 psig	DSGB320N100PSIA	200 psig
-29.9 inHg to 100.0 psig	Yes	DSGB315N30V100PSIG	200 psig	DSGB320N30V100PSIG	200 psig
0 to 100.0 psig	Yes	DSGB315N100PSIG	200 psig	DSGB320N100PSIG	200 psig
-29.9 inHg to 200.0 psig	Yes	DSGB315N30V200PSIG	400 psig	DSGB320N30V200PSIG	400 psig
0 to 200.0 psig	Yes	DSGB315N200PSIG	400 psig	DSGB320N200PSIG	400 psig
0 to 300.0 psig	No	DSGB315N300PSIG	600 psig	DSGB320N300PSIG	550 psig



Option	n—add to end of model number
-E	Electropolished sanitary fitting
Calibr	ation certificates—order separately
CD	Calibration data, 5 test points, test date
NC	NIST certificate with traceability documentation,
NC	5 test points and date

*Maximum pressure dependent on type of clamping device

NEOBEE—Reg TM Stepan Specialty Products, LLC Tri-Clamp-Reg TM Alfa Laval Inc.









Ranges and Selectable Units

Range Codes

The range code in the gauge model number indicates the default range when the gauge is ordered. Any listed engineering unit may

Selectable Ranges

Engineering units may be changed to any of those listed in the same group as shown in the table below.

Conversion

Engineering unit conversions are calculated from the factory default unit to the newly selected units.

be ordered as the default.	
Range Codes	Selectable Units
15PSIA	15.00 to 0 psia
30INHGA	30.00 to 0 inHg abs
400INH20A	400.0 to 0 inH20 abs
240ZINA	240.0 to 0 oz/in2 abs
1000GCMA	1000 to 0 g/cm ² abs
760MMHGA	760.0 to 0 mmHg abs
760TORRA	760.0 to 0 torr abs
1000MBARA	1000 to 0 mbar abs
1000CMH20A	1000 to 0 cmH ₂ O abs
100KPAA	100.0 to 0 kPa abs
0.1MPAA	.1000 to 0 MPa abs
1BARA	1.000 to 0 bar abs
1KGCMA	1.000 to 0 kg/cm ² abs
1ATMA	1.000 to 0 atm abs
Range Codes	Selectable Units
15PSIVAC	0 to 15.00 psig vac
30INHGVAC	0 to 30.00 inHg vac
400INH20VAC	0 to 400 InH20 vac
240ZINVAC	0 to 240.0 oz/in2 vac
1000GCMVAC	0 to 1000 g/cm ² vac
760MMHGVAC	0 to 760.0 mmHg vac
760TORRVAC	0 to 760.0 torr vac
1000MBARVAC	0 to 10000 mbar vac
1000CMH20VAC	0 to 10000 cmH ₂ O vac
100KPAVAC	0 to 100.0 kPa vac
0.1MPAVAC	0 to .1000 MPa vac
1BARVAC	0 to 1.000 bar vac
1KGCMVAC	0 to 35.00 kg/cm ² vac
1ATMVAC	0 to 1.000 atm vac
Range Codes	Selectable Units
15PSIG	0 to 15.00 psig
30INHGG	0 to 30.00 inHg
400INH20G	0 to 400.0 inH20
240ZING	0 to 240.0 oz/in ²
1000GCMG 760MMHGG	0 to 1000 g/cm ² 0 to 760.0 mmHg
760TORRG	0 to 760.0 mmng 0 to 760.0 torr
1000MBARG	0 to 760.0 torr 0 to 1000 mbar
1000MBARG 1000CMH20G	0 to 1000 mbar 0 to 1000 cmH ₂ O
35FTH20	0 to 35.00 ftH ₂ 0
100KPAG	0 to 100.0 kPa
0.1MPAG	0 to .1000 MPa
1BARG	0 to 1000 MPa
1KGCMG	0 to 1000 bar
INUUIVIU	U IU IUUU KG/CIII"

#15PSIG	Range Codes	Selectable Units
#30INHGG		-15.00 to 15.00 psig
### ±400INH20G	-30INHG/15PSIG	-30.00 inHg to 15.00 psig
### ±400INH20G	±30INHGG	-30.00 to 30.00 inHg
±1000GCMG	±400INH20G	-400 to 400 inH ₂ 0
±760MMHGG	±240ZING	
#760TORRG	±1000GCMG	
±1000MBAR	±760MMHGG	-760 to 760 mmHg
±1000CMH20G	±760TORRG	-760 to 760 torr
±100KPAG	±1000MBAR	-1000 to 1000 mbar
±0.1MPAG	±1000CMH20G	
±1BARG		
#1KGCMG	±0.1MPAG	1000 to .1000 MPa
±1ATMG −1.000 to 1.000 atm Range Codes Selectable Units 30PSIA 30.00 to 0 psia 60INHGA 60.00 to 0 inHg abs 850INH20A 850 to 0 inH20 abs 480ZINA 480.0 to 0 cz/in² abs 2100 to 0 g/cm² abs 1600 to 0 mmHg abs 1600MHGA 1600 to 0 torr abs 2000MBARA 2000 to 0 mbar abs 2100CMH20A 2100 to 0 cmH20 abs 200KPAA 200.0 to 0 kPa abs 0.2MPAA 0 to 2.000 to 0 kg/cm² abs 2ATMA 0 to 2.000 to 0 bar abs 2ATMA 0 to 2.000 to 0 atm abs Range Codes Selectable Units 30PSIG 0 to 30.00 psig 60INHGG 0 to 850 inH20 480ZING 0 to 480.0 oz/in² 2100GCMG 0 to 1600 mmHg 1600TORRG 0 to 1600 mmHg 1600TORRG 0 to 1600 mmH20 1600CMH20G 0 to 2000 mbar 2100CMAG 0 to 2100 cmH20 200KPAG 0 to 2000 kPa 0.2MPAG 0 to 2000 MPa	±1BARG	-1.000 to 1.000 bar
±1ATMG −1.000 to 1.000 atm Range Codes Selectable Units 30PSIA 30.00 to 0 psia 60INHGA 60.00 to 0 inHg abs 850INH20A 850 to 0 inH20 abs 480ZINA 480.0 to 0 cz/in² abs 2100 to 0 g/cm² abs 1600 to 0 mmHg abs 1600MHGA 1600 to 0 torr abs 2000MBARA 2000 to 0 mbar abs 2100CMH20A 2100 to 0 cmH20 abs 200KPAA 200.0 to 0 kPa abs 0.2MPAA 0 to 2.000 to 0 kg/cm² abs 2ATMA 0 to 2.000 to 0 bar abs 2ATMA 0 to 2.000 to 0 atm abs Range Codes Selectable Units 30PSIG 0 to 30.00 psig 60INHGG 0 to 850 inH20 480ZING 0 to 480.0 oz/in² 2100GCMG 0 to 1600 mmHg 1600TORRG 0 to 1600 mmHg 1600TORRG 0 to 1600 mmH20 1600CMH20G 0 to 2000 mbar 2100CMAG 0 to 2100 cmH20 200KPAG 0 to 2000 kPa 0.2MPAG 0 to 2000 MPa	±1KGCMG	-1.000 to 1.000 kg/cm ²
30.90 to 0 psia		-1.000 to 1.000 atm
60INHGA	Range Codes	Selectable Units
850 INH20A	30PSIA	
480.2 INA	60INHGA	60.00 to 0 inHg abs
2100GCMA	850INH20A	850 to 0 inH20 abs
1600MMHGA	480ZINA	480.0 to 0 oz/in2 abs
1600 to 0 to r abs	2100GCMA	2100 to 0 g/cm ² abs
2000MBARA 2000 to 0 mbar abs 2100CMH20A 2100 to 0 cmH20 abs 200KPAA 200.0 to 0 kPa abs 0.2MPAA 0 to .2000 to 0 MPa abs 2BARA 0 to 2.000 to 0 bar abs 2KGCMA 0 to 2.000 to 0 atm abs 2ATMA 0 to 2.000 to 0 atm abs Range Codes Selectable Units 30PSIG 0 to 30.00 psig 60INHGG 0 to 60.00 inHg 850INH20G 0 to 850 inH20 480ZING 0 to 480.0 oz/in² 2100GCMG 0 to 1600 mmHg 1600TORRG 0 to 1600 mmHg 1600TORRG 0 to 1600 torr 2000MBARG 0 to 2000 mbar 2100CMH20G 0 to 2100 cmH20 70FTH20 0 to 70.00 ftH20 200KPAG 0 to 2000 kPa 0.2MPAG 0 to 2000 MPa	1600MMHGA	1600 to 0 mmHg abs
2100CMH20A 2100 to 0 cmH20 abs 200KPAA 200.0 to 0 kPa abs 0.2MPAA 0 to .2000 to 0 MPa abs 2BARA 0 to 2.000 to 0 bar abs 2KGCMA 0 to 2.000 to 0 bar abs 2ATMA 0 to 2.000 to 0 atm abs 2ATMA 0 to 2.000 to 0 atm abs 2ATMA 0 to 2.000 to 0 atm abs 2ATMA 0 to 3.000 psig 60INHGG 0 to 60.00 inHg 850INH20G 0 to 850 inH20 480ZING 0 to 480.0 oz/in² 2100GCMG 0 to 1600 mmHg 1600TORRG 0 to 1600 mmHg 1600TORRG 0 to 1600 mmHg 2000MBARG 0 to 2100 cmH20 70FTH20 0 to 70.00 ftH20 200KPAG 0 to 2000 MPa 0.2MPAG 0 to .2000 MPA 0.2MPAG 0.2MPAG	1600TORRA	1600 to 0 torr abs
200KPAA 200.0 to 0 kPa abs	2000MBARA	2000 to 0 mbar abs
0.2MPAA 0 to 2.000 to 0 MPa abs 2BARA 0 to 2.000 to 0 bar abs 2KGCMA 0 to 2.000 to 0 kg/cm² abs 2ATMA 0 to 2.000 to 0 atm abs Range Codes Selectable Units 30PSIG 0 to 30.00 psig 60INHGG 0 to 60.00 inHg 850INH20G 0 to 850 inH20 480ZING 0 to 480.0 oz/in² 2100GCMG 0 to 2100 g/cm² 1600MMHGG 0 to 1600 torr 2000MBARG 0 to 2000 mbar 2100CMH20G 0 to 2100 cmH20 70FTH20 0 to 70.00 ftH20 200KPAG 0 to 2000 kPa 0.2MPAG 0 to .2000 MPa	2100CMH20A	2100 to 0 cmH ₂ O abs
2BARA 0 to 2.000 to 0 bar abs 2KGCMA 0 to 2.000 to 0 kg/cm² abs 2ATMA 0 to 2.000 to 0 to 0 kg/cm² abs 2ATMA 0 to 2.000 to 0 atm abs Range Codes Selectable Units 30PSIG 0 to 30.00 psig 60INHGG 0 to 60.00 inHg 850INH20G 0 to 480.0 oz/in² 2100GCMG 0 to 2100 g/cm² 1600MMHGG 0 to 1600 mmHg 1600TORRG 0 to 1600 torr 2000MBARG 0 to 2000 mbar 2100CMH20G 0 to 2100 cmH20 70FTH20 0 to 70.00 ftH20 200KPAG 0 to 2000 kPa 0.2MPAG 0 to .2000 MPa	200KPAA	200.0 to 0 kPa abs
2KGCMA 0 to 2.000 to 0 kg/cm² abs 2ATMA 0 to 2.000 to 0 atm abs Range Codes Selectable Units 30PSIG 0 to 30.00 psig 60INHGG 0 to 60.00 inHg 850INH20G 0 to 850 inH20 480ZING 0 to 480.0 oz/in² 2100GCMG 0 to 1000 mmHg 1600MMHGG 0 to 1600 mmHg 1600TORRG 0 to 1600 torr 2000MBARG 0 to 2000 mbar 2100CMH20G 0 to 2100 cmH20 70FTH20 0 to 70.00 ftH20 200KPAG 0 to 200.0 kPa 0.2MPAG 0 to .2000 MPa	0.2MPAA	0 to .2000 to 0 MPa abs
2KGCMA 0 to 2.000 to 0 kg/cm² abs 2ATMA 0 to 2.000 to 0 atm abs Range Codes Selectable Units 30PSIG 0 to 30.00 psig 60INHGG 0 to 60.00 inHg 850INH20G 0 to 850 inH20 480ZING 0 to 480.0 oz/in² 2100GCMG 0 to 1600 mmHg 1600MMHGG 0 to 1600 mmHg 1600TORRG 0 to 1600 torr 2000MBARG 0 to 2000 mbar 2100CMH20G 0 to 2100 cmH20 70FTH20 0 to 70.00 ftH20 200KPAG 0 to 200.0 kPa 0.2MPAG 0 to .2000 MPa	2BARA	0 to 2.000 to 0 bar abs
Range Codes	2KGCMA	0 to 2.000 to 0 kg/cm2 abs
30PSIG	2ATMA	0 to 2.000 to 0 atm abs
60INHGG	Range Codes	Selectable Units
850INH20G	30PSIG	0 to 30.00 psig
480ZING	60INHGG	0 to 60.00 inHg
2100GCMG	850INH20G	0 to 850 inH2O
1600MMHGG	480ZING	0 to 480.0 oz/in ²
1600TORRG	2100GCMG	0 to 2100 g/cm ²
2000MBARG 0 to 2000 mbar 2100CMH20G 0 to 2100 cmH20 70FTH20 0 to 70.00 ftH20 200KPAG 0 to 200.0 kPa 0.2MPAG 0 to .2000 MPa	1600MMHGG	0 to 1600 mmHg
2100CMH20G 0 to 2100 cmH20 70FTH20 0 to 70.00 ftH20 200KPAG 0 to 200.0 kPa 0.2MPAG 0 to .2000 MPa	1600TORRG	0 to 1600 torr
70FTH20 0 to 70.00 ftH20 200KPAG 0 to 200.0 kPa 0.2MPAG 0 to .2000 MPa	2000MBARG	0 to 2000 mbar
200KPAG 0 to 200.0 kPa 0.2MPAG 0 to .2000 MPa	2100CMH20G	0 to 2100 cmH ₂ 0
0.2MPAG 0 to .2000 MPa	70FTH20	0 to 70.00 ftH ₂ O
	200KPAG	0 to 200.0 kPa
2RARG 0 to 2 000 har	0.2MPAG	
	2BARG	0 to 2.000 bar
2KGCMG 0 to 2.000 kg/cm ²	2KGCMG	
2ATMG 0 to 2.000 atm	2ATMG	0 to 2.000 atm

Range Codes	
60PSIG	0 to 60.00 psig
120INHGG	0 to 120.0 inHg
1660INH20G	0 to 1660 inH20
960ZING	0 to 960 oz/in2
4200GCMG	0 to 4200 g/cm ²
3100MMHGG	0 to 3100 mmHg
3100TORRG	0 to 3100 torr
4100MBARG	0 to 4100 mbar
4200CMH20G	0 to 4200 cmH ₂ 0
140FTH20	0 to 140.0 ftH ₂ 0
400KPAG	0 to 400.0 kPa
0.4MPAG	0 to .4000 MPa
4BARG	0 to 4.000 bar
4KGCMG	0 to 4.000 kg/cm ²
4ATMG	0 to 4.000 atm
Range Codes	Selectable Units
100PSIA	100.0 to 0 psia
200INHGA	200.0 to 0 inHg abs
2770INH20A	2770 to 0 inH ₂ 0 abs
1600ZINA	1600 to 0 oz/in² abs
7000GCMA	7000 to 0 g/cm ² abs
5200MMHGA	5200 to 0 mmHg abs
5200TORRA	5200 to 0 torr abs
7000MBARA	7000 to 0 mbar abs
7000CMH20A	7000 to 0 cmH ₂ O abs
700KPAA	700.0 to 0 kPa abs
0.7MPAA	0 to .7000 to 0 MPa abs
7BARA	0 to 7.000 to 0 bar abs
7KGCMA	0 to 7.000 to 0 kg/cm ² abs
7ATMA	0 to 7.000 to 0 atm abs
Range Codes	Selectable Units
100PSIG	0 to 100.0 psig
200INHGG	0 to 200.0 inHg
2770INH20G	0 to 2770 inH ₂ O
1600ZING	0 to 1600 oz/in ²
7000GCMG	0 to 7000 g/cm ²
5200MMHGG	0 to 5200 mmHa
5200TORRG	0 to 5200 torr
7000MBARG	0 to 7000 mbar
7000MBARG 7000CMH20G	0 to 7000 mbar 0 to 7000 cmH ₂ O
230FTH20	0 to 230.0 ftH ₂ 0
700KPAG	0 to 700.0 kPa
0.7MPAG	0 to .7000 MPa
0.7MPAG 7BARG	0 to 7.000 bar
0.7MPAG	

Range Codes	Selectable Units
-15V100PSIG	-15.0 to 100.0 psig
-30INHG/100PSIG	-30.0 inHg to 100.0 psig
-30V200INHGG	-30.0 to 200.0 inHg
-400V2770INH20G	-400 to 2770 inH20
240V1600ZING	-240 to 1600 oz/in²
760V5200MMHGG	-760 to 5200 mmHg
760V5200WWHGG 760V5200TORRG	-760 to 5200 filling
-100V700KPAG	
	-100 to 700 kPa 100 to .700 MPa
-0.1V0.7MPAG	-1.00 to .700 MPa
-1V7BARG	
-1V7KGCMG	-1.00 to 7.00 kg/cm ² -1.00 to 7.00 atm
-1V7ATMG	
Range Codes	Selectable Units
-15V200PSIG -30INHG/200PSIG	-15.0 to 200.0 psig
-30INHG/200PSIG -30V400INHGG	-30.0 inHg to 200.0 psig -30.0 to 400.0 inHg
400V5500INH20G	-400 to 5500 inH20
240V3200ZING	-240 to 3200 oz/in²
-100V1400KPAG -0.1V1.4MPAG	-100 to 1400 kPa 100 to 1.400 MPa
-0.1V1.4MPAG -1V14BARG	
	-1.00 to 14.00 bar
-1V14KGCMG	-1.00 to 14.00 kg/cm ²
41/ 4 4 A TRAC	
-1V 14ATMG	-1.00 to 14.00 atm
Range Codes	Selectable Units
Range Codes 200PSIG	Selectable Units 0 to 200.0 psig
Range Codes 200PSIG 400INHGG	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg
Range Codes 200PSIG 400INHGG 5500INH20G	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inH20
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inH20 0 to 3200 oz/in²
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inH20 0 to 3200 oz/in² 0 to 480.0 ftH20
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inH20 0 to 5500 inH20 0 to 3200 oz/in² 0 to 480.0 ftH20 0 to 1400 kPa
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG 1.4MPAG	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inH20 0 to 3200 oz/in² 0 to 480.0 ftH20 0 to 1400 kPa 0 to 1.400 MPa
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG 1.4MPAG 14BARG	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inH20 0 to 3200 oz/in² 0 to 480.0 ftH20 0 to 1400 kPa 0 to 1400 MPa 0 to 14.00 bar
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG 1.4MPAG 14BARG 14KGCMG	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inHg 0 to 5500 inH20 0 to 3200 oz/in² 0 to 480.0 ftH20 0 to 1400 kPa 0 to 1400 MPa 0 to 14.00 bar 0 to 14.00 kg/cm²
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG 1.4MPAG 14BARG 14KGCMG	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inH20 0 to 5500 inH20 0 to 3200 oz/in² 0 to 480.0 ftH20 0 to 1400 kPa 0 to 1.400 MPa 0 to 14.00 bar 0 to 14.00 kg/cm² 0 to 14.00 kg/cm²
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG 1.4MPAG 14BARG 14KGCMG 14ATMG Range Codes	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inH20 0 to 5500 inH20 0 to 3200 oz/in² 0 to 480.0 ftH20 0 to 1400 kPa 0 to 1.400 MPa 0 to 14.00 bar 0 to 14.00 kg/cm² 0 to 14.00 atm Selectable Units
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG 1.4MPAG 14BARG 14KGCMG 14ATMG Range Codes 300PSIG	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inH20 0 to 5500 inH20 0 to 3200 oz/in² 0 to 480.0 ftH20 0 to 1400 kPa 0 to 1.400 MPa 0 to 14.00 bar 0 to 14.00 kg/cm² 0 to 14.00 atm Selectable Units 0 to 300.0 psig
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG 1.4MPAG 14BARG 14KGCMG 14ATMG Range Codes 300PSIG 610INHGG	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inHg 0 to 5500 inHg 0 to 5500 inHg 0 to 480.0 ftHg 0 to 1400 kPa 0 to 1400 kPa 0 to 14.00 bar 0 to 14.00 kg/cm² 0 to 14.00 atm Selectable Units 0 to 300.0 psig 0 to 61.0 inHg
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG 1.4MPAG 14BARG 14KGCMG 14ATMG Range Codes 300PSIG 610INHGG 4800ZING	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inHg 0 to 5500 inHg 0 to 480.0 ftHg 0 to 1400 kPa 0 to 1400 MPa 0 to 14.00 MPa 0 to 14.00 kg/cm² 0 to 14.00 kg/cm² 0 to 14.00 sg/cm² 0 to 14.00 atm Selectable Units 0 to 300.0 psig 0 to 4800 oz/in²
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG 1.4MPAG 14BARG 14KGCMG 14ATMG Range Codes 300PSIG 610INHGG 4800ZING 700FTH20	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inH20 0 to 5500 inH20 0 to 5200 oz/in² 0 to 480.0 ftH20 0 to 1400 kPa 0 to 1.400 MPa 0 to 1.400 MPa 0 to 14.00 kg/cm² 0 to 14.00 atm Selectable Units 0 to 300.0 psig 0 to 610.0 inHg 0 to 4800 oz/in²
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG 1.4MPAG 14BARG 14KGCMG 14ATMG Range Codes 300PSIG 610INHGG 4800ZING 700FTH20 2000KPAG	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inH20 0 to 5500 inH20 0 to 3200 oz/in² 0 to 480.0 ftH20 0 to 1400 kPa 0 to 1.400 MPa 0 to 14.00 bar 0 to 14.00 bar 0 to 14.00 atm Selectable Units 0 to 300.0 psig 0 to 610.0 inHg 0 to 4800 oz/in² 0 to 700.0 ftH20 0 to 2000 kPa
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG 1.4MPAG 14BARG 14KGCMG 14ATMG Range Codes 300PSIG 610INHGG 4800ZING 700FTH20 2000KPAG 2MPAG	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inH20 0 to 3200 oz/in² 0 to 480.0 ftH20 0 to 1400 kPa 0 to 1400 kPa 0 to 14.00 bar 0 to 14.00 bar 0 to 14.00 atm Selectable Units 0 to 300.0 psig 0 to 610.0 inHg 0 to 4800 oz/in² 0 to 700.0 ftH20 0 to 2000 kPa 0 to 2000 kPa
Range Codes 200PSIG 400INHGG 5500INH20G 3200ZING 480FTH20 1400KPAG 1.4MPAG 14BARG 14KGCMG 14ATMG Range Codes 300PSIG 610INHGG 4800ZING 700FTH20 2000KPAG 2MPAG 20BARG	Selectable Units 0 to 200.0 psig 0 to 400.0 inHg 0 to 5500 inHg 0 to 5500 inHz 0 to 5500 inHz 0 to 5500 inHz 0 to 480.0 ftHz 0 to 1400 kPa 0 to 1400 kPa 0 to 14.00 bar 0 to 14.00 kg/cm² 0 to 14.00 atm Selectable Units 0 to 300.0 psig 0 to 610.0 inHg 0 to 4800 oz/in² 0 to 2000 kPa 0 to 2000 MPa 0 to 2000 MPa
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Installation Precautions

1ATMG

Read these instructions before using the gauge. Configuration may be easier before installation. Contact the factory for assistance.

0 to 1000 atm

- These products do not contain user-serviceable parts. Contact us for repairs, service, or refurbishment.
- Gauges must be operated within specified ambient temperature ranges
- Use clamp appropriate for the pressure range of the gauge.
- Use a pressure or vacuum range appropriate for the application.
- Remove system pressures before removing or installing gauge.
- ✓ Good design practice dictates that positive displacement liquid pumps include protection devices to prevent sensor damage from pressure spikes, acceleration head, and vacuum extremes.
- X Avoid permanent sensor damage! Do not apply vacuum to nonvacuum gauges or hydraulic vacuum to any gauges.
- Avoid permanent damage! NEVER touch surface of diaphragm.
- ▲ Gauges are not for oxygen service. Accidental rupture of sensor diaphragm may cause oil inside seal to react with oxygen.

Battery Replacement

A low battery indication will be shown in the upper lefthand corner of the display when the battery voltage falls sufficiently. The batteries should be replaced soon after the indicator comes on or unreliable readings may result.

- 1. Remove the 6 Phillips screws on the back of the unit. 2. Remove the battery retainer. Remove batteries by lifting up the positive end of the battery (opposite the spring) taking care not
- to bend the battery holder spring. 3. Discard old batteries properly, do not discard into fire, sources of extreme heat, or in any hazardous manner.

Battery Replacement (continued)

- 4. Always replace both batteries at the same time with high quality alkaline batteries.
- 5. Install batteries with correct orientation. Incorrect polarity will damage the gauge. The negative (flat) end of each battery should be inserted first facing the battery holder spring.
- 6. Replace battery retainer and back cover, including the rubber gasket and reinstall the six screws.

Power-Up and Normal Operation

Your gauge is ready to use. It was factory calibrated just prior to shipment with batteries installed

Press and hold the center power button for approximately 1 second. The display is tested.

The full-scale range in the factory default units is indicated. If the units were changed by the user, then the full scale range in the selected engineering units is displayed.

The display test is briefly shown again.

The actual pressure and units are displayed. The gauge is ready for use and the pressure reading is updated approximately 3 times

At zero pressure, occasional flashing of the minus sign is normal and indicates the gauge is at zero pressure.



Display Backlighting Operation

Display backlighting can be turned on by momentarily pressing the power button whenever the gauge is on. This also restarts the auto shutoff timer. The backlighting will turn on for 1 minute and then automatically shut off. The factory default on-time is 1 minute, but in user configuration it can be set from 0 (disabled) to 255 minutes.

The red LED display backlighting will not be apparent under bright lighting conditions.

Zero the Display

This applies to gauge reference models only. Absolute reference gauges do not use the zero feature since they read atmospheric pressure under normal conditions.

Be sure the gauge is in the normal operating mode. The gauge port must be exposed to normal atmospheric pressure with no pressure or vacuum applied.

Press and hold the Zero/Clear button.

Continue to press the Zero/Clear button until aaaa is displayed.

Release the button.

The gauge in now zeroed.

Occasional flashing of the minus sign with zero pressure/vacuum is normal.

The stored zero correction is erased when the gauge is shut off







USER

The auto shutoff timer starts when the gauge is powered and resets whenever any button is pressed. The factory default time is 5 minutes. The setup procedure allows setting it to a variety of times, or disabling it for on/off operation.

When an auto shutoff timer is used, the display indicates DFF five seconds prior to auto shutoff. Press the power button to keep the gauge on.

To shut off the gauge manually at any time, press and hold the center power button until the display indicates *DFF* (about 3 seconds) and then release.

If the gauge set up without auto shutoff (on/off operation) it will stay on until manually shut off or until the batteries are depleted. Turn gauge off when not in use to conserve battery life.



Error Indications

Attempting to zero the gauge with pressure greater than approximately 3% of full-scale pressure or vacuum applied will result in an error condition

The display will alternately indicate Err D and the actual pressure.

The gauge must be powered down to reset the error condition.

If excessive vacuum is applied to a pressure-only gauge, the display will indicate -Err until the vacuum is released. Applying vacuum to a gauge designed for pressure may damage the pressure sensor



ErrO

Over Pressure Indications

If excessive pressure is applied (112.5% over range), an out-of-range indication of 1 - - - or 1.-.- will be displayed depending on model.





Min/Max Memory

The gauge may be configured to capture any combination of maximum and/or minimum values. Only the configured values will be displayed when the memory button is pressed.

Depending on the user configuration, the readings may be erased when the gauge powers down or retained in memory.

The Min/Max readings are captured at the rate of 3 times per second. The readings are captured any time the gauge is on in normal operating mode. Note that if a brief pressure deviation occurs, it may not be captured. In may situations it may be advantageous to clear the Min/Max memory after your process is at normal operating pressure.

Press and release the Memory button to view the maximum stored value.

The center power button may be pressed at any time to return to the normal display

The gauge may be left in the maximum display mode if desired. The maximum reading will be continuously displayed, stored and updated.

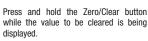
Press and release the Memory button to view the minimum stored value.

The gauge may be left in the minimum display mode if desired. The minimum reading will be continuously displayed, stored and updated.

Press and release the center power button to return to the normal display mode.

Manually Clear Min or Max

While in the Max or Min display mode, a captured maximum or minimum value can be cleared.



Release the button when CIr is displayed.

To effectively use the minimum function it may be necessary to have the gauge at the normal operating pressure and then clear the minimum stored reading (usually zero).

Press and release the center power button to return to normal readings.

205.0







Enter Gauge Configuration Mode

The gauge is designed to use a 4 digit pass code to enter the configuration modes. This is to prevent unauthorized changing of settings.

With the gauge off, press and hold the ▲ button. Then press the center power

Release all buttons when the display indicates *CFG*. The gauge firmware version is also displayed.

The gauge then goes through the normal power up sequence.

The display prompts for entry of the configuration pass code (CFGPC), with the first underscore blinking.

Note: The gauge will automatically revert to normal operation if no buttons are pressed for approximately 15 seconds. To cancel and return to normal operation, press and release the power button without entering any pass code characters.

Enter the pass code. 3510 is the factory default, but it is user-modifiable.

Use the ▲ or ▼ buttons to set the leftmost digit to 3.

Press and release the power button to index to the next position. The 3 will remain, and the second position will be blinking.

Use the ▲ or ▼ buttons to select 5.

Press and release the power button to index to the next position. 3 5 will remain, and the third position will be blinking.

Use the ▲ or ▼ buttons to select 1.

Press and release the power button to index to the next position 3.5.1 will remain, and the fourth position will be blinking.

Use the ▲ or ▼ buttons to select 0.

Press and release the power button to proceed with configuration procedures.

Note: If an incorrect pass code is entered, the gauge will return to the start of the pass code entry sequence.









power up sequence

CFGPC

CFGPC

35

CFG/PB

35 I

 $CFGPC^{/\top}$

35 I O

CFGPC

Gauge Configuration—User or Factory

Upon successful pass code entry, the lower display will indicate USER.

If USER is not displayed. Press and release the ▼ button. With USER selected, the gauge configuration can be modified as described in the following sections.

Press and release the power button to continue with USER configuration.

If Factory (FCTRY) is selected, the user configuration will be replaced by the configuration as it left the factory

To select Factory, press and release the ▲ button. The lower display will indicate FCTRY.

Press and release the power button to restore the factory configuration and restart the gauge.



Min/Max Setup

After the center power button is pressed when in user configuration mode, the display indicates MX/MN.

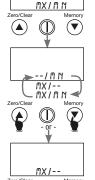
Use the ▲ or ▼ buttons to select the desired configuration.

MX/MN to capture both maximum and minimum readings.

--/MN to capture minimum readings

MX/-- to capture maximum readings only.

Press and release the power button to save the user configuration and move to the next setup parameter.



Min/Max Setup—Auto or Manu

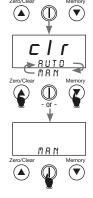
After the center power button is pressed when in user MX/MN configuration mode, the upper display indicates clr.

Use the ▲ button to select AUTD and the or ▼ button to select MRN.

When the lower display indicates MAN, the maximum and/or minimum readings will be retained in memory after the gauge is powered off. The readings can be cleared manually.

When the lower display indicates AUTO, the maximum and/or minimum readings will be automatically cleared when the gauge is powered off.

Press and release the power button to save the user configuration and move to the next setup parameter.



1

MAN

Continued on Next Page >>





Engineering Unit Selection

With the gauge in the user configuration mode, the upper display will be blank with the engineering units in the lower display.

Use the \blacktriangle and \blacktriangledown buttons to navigate through the list of engineering units. Available engineering units depend on the sensor range.

If the gauge was ordered as a compound gauge, the lower display will indicate +/-EU or CMPND.

Selecting *CMPND* will set the gauge for inHg for vacuum and PSIG for pressure. Selecting +/-EU and then pressing the center button will allow selection of engineering units.

When the desired units are displayed, press and release the power button to save your selection and move to the next parameter.

P516 Zero/Clear Memory or - For Compound Gauges C P N D Zero/Clear Memory Zero/Clear Memory

INHG

AST M

- or

R S T

 (\mathbf{y})

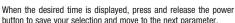
Auto Shutoff Time Selection

The auto shutoff time is shown on the upper display. The lower display will indicate *RST M* if the time displayed is in minutes or *RST H* if it is in hours.

Use the \triangle and ∇ buttons to select 0 (manual shutoff), 1, 2, 5, 10, 15, 20, or 30 minutes, or 1, 2, 4, or 8 hours.

A setting of zero disables the auto shutoff timer. This requires using the power button to shut the gauge off.

If the gauge was ordered with a custom shutoff time it will become unavailable if the time is changed. Reset the gauge to the original factory configuration as described previously to restore the custom time.



Backlight Time Selection

The the upper display will be blank. The lower display will indicate BL if the display backlight is enabled or ND BL if display backlight is disabled.

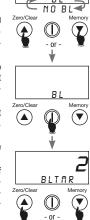
Use the \blacktriangle button to enable backlighting and the \blacktriangledown button to disable backlighting. Press the power button to save the setting.

If $\it ND$ $\it BL$ was selected the user setup is complete and the gauge will restart and be ready for use with the new configuration.

If *BL* was selected the current backlight auto shutoff time is displayed in minutes. 1 minute is the factory default.

Use the \blacktriangle and \blacktriangledown buttons to select the minutes for backlight shutoff time.

A setting of zero disables the auto shutoff timer and the backlight will be on whenever the gauge is on. The maximum setting is 255 minutes. The gauge auto shutoff time will override the backlight time.



When the desired time is displayed, press and release the power button to save your selection and restart the gauge.

Setup Complete

Once you have cycled through the setup parameters (min/max setup, min/max memory, engineering units, shutoff time, backlight time), the gauge will restart with the new settings and be ready for use. The settings can be changed at any time by entering the pass code and following the setup sequence.

Calibration

Setup and Preparation

Gauges are calibrated at the factory using equipment traceable to NIST. Gauges are calibrated in an upright position at normal ambient temperatures (approx. 20°C). There is no need to calibrate the gauge before putting it into service unless the process temperature and gauge position deviate from normal.

Calibration should only be performed by qualified individuals using appropriate calibration standards and procedures. Calibration intervals depend on your quality control program requirements, although many customers calibrate annually.

The calibration system must be able to generate and measure pressure/vacuum over the full range of the gauge and should be at least four times more accurate than the gauge being calibrated.

A vacuum pump able to produce a vacuum of 100 microns (0.1 torr or 100 millitorr) or lower is required for vacuum gauges. Warning: application of vacuum to non-vacuum models will result in damage to the sensor.

Allow the gauge to acclimate to the calibration temperature for at least 60 minutes. Calibrate the gauge at the same temperature as the process with the gauge oriented in the same position.

Install fresh batteries before calibration.

Entering Calibration Mode

With the gauge off, press and hold the \blacktriangledown button. Then press the power button. Release all buttons when the display indicates $\mathcal{L}\mathcal{A}\mathcal{L}$.

The display begins by indicating the full-scale positive pressure rating of the gauge in the engineering units as configured by the factory, and then shows all display.

Before the gauge enters the Calibration Mode, the display initially indicates $_$ $_$ $_$ with the first underscore blinking, and with $\mathcal{L}\mathcal{H}\mathcal{L}\mathcal{P}\mathcal{L}$ (calibration pass code) on the lower display.

Enter the 3510 pass code as described in the Configuration Pass Code section.

Calibration Mode

The gauge enters and remains in the Calibration Mode until restarted manually or power is removed. Features not related to calibration are disabled and compound range models are set for the same engineering units for pressure and for vacuum.

The calibration may be performed in any of the available engineering units as well as percent (PCT).

For greatest accuracy, use the ▲ and ▼ buttons to select engineering units for calibration with highest resolution (highest number of display counts)

Press and release the Power button when the appropriate engineering units are displayed. Suggested units are listed below.

 Sensor
 Suggested units for calibration

 15 PSI
 775.7 MMHG or TORR

 30 PSI
 61.08 INHG

 60 PSI
 60.00 PSI

 100 PSI
 7.031 KG/CM2

 200 PSI
 5534 INH20

 300 PSI
 610.8 INHG

The display will then indicate the currently applied pressure in the engineering units selected for calibration.

▲ and ▼ Button Operation

Each time one of the ▲ or ▼ buttons is pressed and released quickly, a small change is made to the digitized pressure signal. It may take more than one of these small changes to result in a single digit change on the display.

To make larger changes, press and hold the appropriate button. After about one second, the display will begin to change continuously. Release the button to stop. Then make fine adjustments by pressing and quickly releasing the buttons as previously described.

Gauge Reference Pressure Gauges

Apply zero pressure by venting the gauge port to atmosphere. The character display will alternate between ZERO and CRL. Adjust for a display indication of zero using the ▲ and ▼ buttons.

Apply full-scale pressure. The character display will alternate between +SPRN and CRL. Adjust for a display indication of full-scale pressure using the \blacktriangle and \blacktriangledown buttons.

Apply 50% full-scale pressure. The character display will alternate between +MID and $\mathbb{C}HL$. Adjust for a display indication equal to 50% of full-scale pressure using the \blacktriangle and \blacktriangledown buttons.

Gauge Reference Vacuum Gauges

Apply zero pressure by venting the gauge port to atmosphere. The character display will alternate between ZERD and CAL. Adjust for a display indication of zero using the \blacktriangle and \blacktriangledown buttons.

Apply full-scale vacuum. The character display will alternate between +5PHN and CHL. Adjust for a display indication of full-scale vacuum using the \blacktriangle and \blacktriangledown buttons.

Calibration—continued

Apply 50% full-scale vacuum. The character display will alternate between +MID and $\mathbb{C}HL$. Adjust for a display indication equal to 50% of full-scale vacuum using the \blacktriangle and \blacktriangledown buttons.

Absolute Reference Gauges

Apply full vacuum to the gauge. The character display will alternate between *ZERO* and *CAL*. Press the ▲ and ▼ buttons to obtain a display indication of zero.

Apply full-scale pressure. The character display will alternate between +SPAN and CAL. Press the \blacktriangle and \blacktriangledown buttons to obtain a display indication equal to full-scale pressure.

Apply 50% of full-scale pressure. The lower display will alternate between +MID and CHL. Press the \blacktriangle and \blacktriangledown buttons to obtain an indication equal to 50% of full-scale pressure.

Compound and Bipolar Gauges

In addition to the steps described above for pressure gauges, apply full-scale vacuum. The character display will alternate between -SPAN and CAL. Adjust for a display indication of actual applied vacuum using the ▲ and ▼ buttons.

For bipolar and -30.00inHg/+15.00psig compound range models only, apply 50% full-scale vacuum. The character display will alternate between -*MID* and *CRL*. Adjust for a display indication equal to 50% of full-scale vacuum using the \blacktriangle and \blacktriangledown buttons.

Save Calibration

Press and hold the power button until the display indicates - - - then release the button to store the calibration parameters in non-volatile memory and restart the gauge.

Verify the pressure indications at 0%, 25%, 50%, 75% and 100% of full scale.

User-Defined Pass Code Configuration

The factory default pass code 3510 may be changed to a different value for configuration and/or calibration.

Configuration Pass Code

With the unit off, press and hold the \blacktriangle button to view and/or change the user configuration pass code. Then press the Power button. Release all buttons when the display indicates \mathcal{LFG} .

Calibration Pass Code

With the unit off, press and hold the ∇ button to view and/or change the user calibration pass code. Then press the Power button. Release all buttons when the display indicates $\square PL$.

Change Pass Code Mode

Before the unit enters the view or change pass code mode, the display initially indicates ____ with the first underscore blinking, and with <code>CFGPC</code> or <code>CALPC</code> on the character segments.

Note: The unit will automatically revert to normal operation if no buttons are operated for approximately 15 seconds. To cancel and return to normal operation, press and release the Power button without entering any pass code characters.

Enter access code 1220:

Use the \blacktriangle and \blacktriangledown buttons to set the left-most digit to 1.

Press and release the Power button to index to the next position. The 1 will remain, and the second position will be blinking.

Use the \blacktriangle and \blacktriangledown buttons to select 2.

Press and release the Power button to index to the next position. 1 2 will remain, and the third position will be blinking.

Use the ▲ and ▼ buttons to select 2.

Press and release the Power button to index to the next position. 1 2 2 will remain, and the fourth position will be blinking.

Use the \blacktriangle and \blacktriangledown buttons to select 0.

Press and release the Power button to proceed.

Note: If an incorrect access code was entered, the gauge will return to the start of the access code entry sequence.

Change Pass Code

Once the access code has been entered correctly, the display will indicate the existing user-defined pass code with CFGPC or CALPC on the character segments.

Press the \blacktriangle or \blacktriangledown button to select the first character of the new pass code.

When the correct first character is being displayed, press and release the Power button to proceed to the next pass code character. Repeat above until the entire pass code is complete.

To exit the User Defined Pass Code change mode, press and hold the power button.

Release the button when the display indicates - - - to restart the gauge.

Cecomp maintains a constant effort to upgrade and improve its products. Specifications are subject to change without notice. Consult factory for your specific requirements.





