

ConST 211 Digital Pressure Gauge



DESCRIPTION

The all new ConST211 is a high-accuracy, high-resolution digital pressure gauge. Because of their robust design, these gauges meet stringent demands and can be used in critical industrial environment where particular importance is attached to measuring accuracy, reproducibility, long term stability and protection against dust penetration.

FEATURES

- > Pressure ranges to 36000psi (2500bar)
- > The lowest differential pressure is 2.5mbar(1inH₂O)
- > Working time is up to 6000 hours
- > Measuring speed can be adjusted to 10 times per second
- > Unique Self-protection capability technology
- > Large, easy-to-read display with 5 digit resolution
- > Stainless steel or Inconel cavity for aggressive media
- > % pressure indication and additional bar graph for quick visual reference

APPLICATIONS

- > High accuracy pressure measurement
- > Field gauge calibration
- > Pressure safety valve (PSV) testing
- > Pressure regulator testing

SPECIFICATION

- > Model
ConST211: Regular range
Const211IS: ATEX certified intrinsically safe.

- > Accuracy
ConST 211(IS)-02: 0.025% of full scale
ConST 211(IS)-05: 0.05% of full scale
ConST 211(IS)-10: 0.1% of full scale
ConST 211(IS)-20: 0.2% of full scale
- > Pressure types
Gauge pressure
Absolute pressure
Differential Pressure
- > Pressure units
Pa, kPa, MPa, kgf/cm², inHg, mmHg, inH₂O, mmH₂O, psi, mbar, bar, (In order to avoid the readings to overflow or too low to read, only some of pressure units are selected.)
- > Media Compatibility
0 ~ 30 psi: Clean dry non-corrosive gases.
50 psi ~ 36000 psi: media compatible with 316L SS.
- > Measuring speed
(0.2~10) times per second, default speed is 3 times/s
- > Display
5 digits with 12.7mm character height
- > Resolution
Maximum five digits
- > Pressure bar Graph
Includes pressure swing, % indication, low/high alarm
- > Ambient Environment
Operating temperature: -10°C to 50°C (14°F to 122°F)
Compensation temperature: -10°C to 50°C (14°F to 122°F)
Storage Temperature: -20°C to 70°C (-4°F to 158°F)
Relative humidity: < 95%
*0.025%FS accuracy guaranteed only over the ambient temperature range of 20°C to 26°C (68°F to 79°F)
- > European Compliance
CE marked (No.: AE 5015 6196 0001)
ATEX certified intrinsically safe (ConST211IS)
- > Power
Battery: one 9V alkaline battery (included).
Battery life: 300 hours (10 times/s), 6000 hours (1 times/10s)
Power auto-off: 60 minutes power auto-off, can be set by user
External power: 110/220V power adapter (optional)
(*Don't use External power in a hazardous atmosphere)
- > Communication
RS232 interface
(*Don't use RS232 connector in a hazardous atmosphere)

ConST 211 Digital Pressure Gauge

> Gauge Pressure^[1]

P/N	Range (psi)	Range (bar)	Media ^[2]	Accuracy (% FS)	Burst Pressure
V15	-15	-1.0	G	0.025 (0.05, 0.1, 0.2)	3 X
GP2	2	0.16	G	0.05 (0.1, 0.2)	3 X
GP5	5	0.35	G	0.025 (0.05, 0.1, 0.2)	3 X
GP10	10	0.7	G	0.025 (0.05, 0.1, 0.2)	3 X
GP15	15	1.0	G, L ^[3]	0.025 (0.05, 0.1, 0.2)	3 X
GP30	30	2.0	G, L ^[3]	0.025 (0.05, 0.1, 0.2)	3 X
GP50	50	3.5	G, L	0.025 (0.05, 0.1, 0.2)	3 X
GP100	100	7.0	G, L	0.025 (0.05, 0.1, 0.2)	3 X
GP300	300	20	G, L	0.025 (0.05, 0.1, 0.2)	3 X
GP500	500	35	G, L	0.025 (0.05, 0.1, 0.2)	3 X
GP1K	1000	70	G, L	0.025 (0.05, 0.1, 0.2)	3 X
GP3K	3000	200	G, L	0.025 (0.05, 0.1, 0.2)	3 X
GP5K	5000	350	G, L	0.025 (0.05, 0.1, 0.2)	3 X
GP10K	10000	700	G, L	0.025 (0.05, 0.1, 0.2)	2 X
GP15K	15000	1000	G, L	0.1 (0.2)	2 X
GP25K	25000	1600	G, L	0.1 (0.2)	1.5 X
GP30K	30000	2000	G, L	0.1 (0.2)	1.5 X
GP36K	36000	2500	G, L	0.1 (0.2)	1.5 X

Note:

[1]. Sealed gauge pressure for above 1000 psi

[2]. G=Gas, L=Liquid [3]. 0.025% FS for gas media only

> Absolute Pressure

P/N	Range (psi)	Range (bar)	Media	Accuracy (% FS)	Burst Pressure
AP5	5	0.35	G	0.1 (0.2)	3 X
AP10	10	0.7	G	0.1 (0.2)	3 X
AP15	15	1.0	G	0.1 (0.2)	3 X
AP30	30	2.0	G	0.1 (0.2)	3 X
AP50	50	3.5	G	0.1 (0.2)	3 X
AP100	100	7.0	G, L	0.1 (0.2)	3 X
AP300	300	20	G, L	0.1 (0.2)	3 X
AP500	500	35	G, L	0.1 (0.2)	3 X
AP1K	1000	70	G, L	0.1 (0.2)	3 X
AP3K	3000	200	G, L	0.1 (0.2)	3 X
AP5K	5000	350	G, L	0.1 (0.2)	3 X

> Differential Pressure

P/N	Range inH ₂ O	Range (mbar)	Media	Accuracy (% FS)	Burst Pressure
DP1	1	2.5	G	0.4	100 X
DP2	2	5.0	G	0.2	100 X
DP5	5	10	G	0.1	50 X
DP10	10	25	G	0.1	20 X
DP20	20	50	G	0.05	20 X
DP30	30	100	G	0.05	20 X

> Pressure Port

¼" NPT male thread (≤15,000psi)

½" NPT male thread (>15,000psi)

0.156 inch (4mm) test hose for differential pressure

Other connections available per request

> Enclosure

Case material: Aluminum alloy

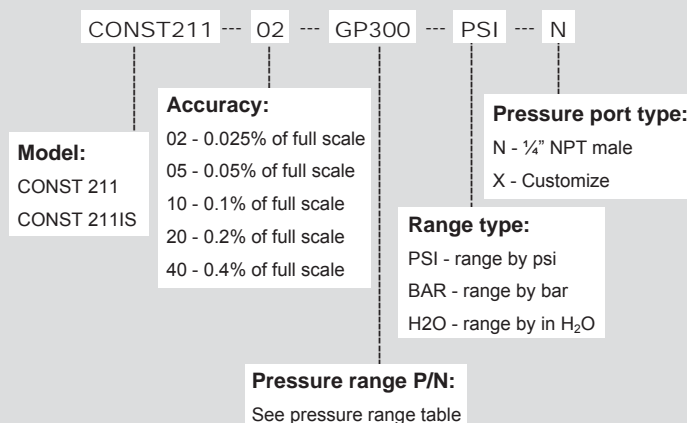
Wetted parts: 316SS

Dimension: 120mm diameter X 40 mm depth

Weight: 580 gram approximate

ORDERING INFORMATION

> Model number:



OPTIONAL ACCESSORIES

Model #	Description
9812	110V/220V power adapter(DC 9V)for ConST211
9902	Carrying case for gauges (up to 4pcs ConST211)
9101	Calibration certificate from BIM