



Model CM Precision Pressure Gauge

FEATURES

- ±0.1% F.S. accuracy ASME B40.1, Grade 4A
- Ranges from 15-100,000 psi
- Solid front protective case
- High and low pressure limit stop
- Mirror band dial to eliminate parallax reading error
- Optional temperature compensation maintains 0.1% accuracy from -25 to +125°F

Heise precision pressure gauges have continually set the quality standard by which all other pressure gauges are measured. Behind every Heise® product is a modern manufacturing facility certified to ISO9001 with NIST traceable standards maintained in accordance with MIL-STD-45662 and ANSI/NCSL Z-540.

But far beyond any specifications are the unwritten standards of excellence which have been set by our craftsmen. They have become the single most important ingredient in our success. It is this pride, skill and dedication that has become our history, and you can see it in every Heise precision pressure gauge that we make.

The Heise[®] precision pressure gauge case style features a solid-front aluminum case with a hinged ring. The dial has a polished mirror band for pointer reflection to prevent parallax error and is available in 6, "8½," 12," and 16" dial sizes in both lower and back connection. Pointer is a balanced-friction adjustable design with red knife edge tip for easy reading.

PRODUCT SPECIFICATIONS

HEISE®								
Model No.	CM							
Dial Size: Scale Length: Pointer Travel:	6″ 18″ 	8½″ 25″ — 350	0.72	16″ 43¼″				
Case:	Cast aluminum, solid front. Blow out rear cover. Integral panel mounting flange							
Lens:	Polycarbonate,							
Dial:	Black figures on white, high resolution with mirror band							
Pointer:	Knife edge pointer to eliminate parallax errors							
Bourdon								
Tube:	Bleeder tipped for easy flushing or purging							
Socket: Connections:		e F250-	Back Cor C (Aminco onnect					
Ranges:	Gauge p	ressure	- standard	b				
Repeatability:	±0.02%	F.S.						
Hysteresis:	±0.1% F	.S. ⁽¹⁾						
Total Accuracy:	±0.1% F NIST tra		des Certif	icate of				

OPTIONAL FEATURES

- Custom scales/units of measure
- Thermal compensation (maintains 0.1% accuracy from -25 to +125°F)
- Slotted link (protects movement during sudden pressure release)
- Wall mounting brackets
- Peak load indicator
- Dual scale dial
- Compound, vacuum and absolute ranges(requires manual barometric compensation)

OPTIONAL PRESSURE INLET TYPE AND LOCATION

- 1/8 NPT Male or Female Back or Bottom
- 1/4 NPT Male or Female Back or Bottom
- AND10050-4 Female Only Back or Bottom
- Autoclave F250-C Female Only Back or Bottom
- Aminco 45-11310 Female Only Back or Bottom
- MS33649-4 Female Only Back or Bottom
- MS33656-4 Male Only Back or Bottom
- MS-16142 Female Only Back or Bottom
- Mil-G-18997D Male Only Back or Bottom
- (1) Hysteresis may exceed ±0.1% of span for ranges equal to or greater than 75,000 psi. (±0.3% typical not to exceed ± 0.4% of span).

ISO 9001 REGISTERED FIRM

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PANEL



G

А





Model "CM" Dimensions

E

SIDE VIEW

Size	Dim Unit		В	с	D	E	E1	E2	F™	FF	G	Нм	HF	J	к	L
	in.	71/8	7	6½	7	2	1 1 1/8	1 1⁄4	4%16	4¼	3 ¹ / ₄	1%	1 1⁄16	327/32	5⁄8	2 ¹⁵ /32
6″	mn	n 200	177.8	165.1	177.8	50.8	47.6	31.8	115.8	107.9	82.3	34.9	27	97.6	15.9	62.7
8½″	in.	105/16	9 ³ /8	815/16	9½	2	1 1 1/8	1 1⁄4	5 ⁴³ ⁄64	5 ²³ ⁄64	31⁄4	1 ¾	1 1⁄16	41/32	5⁄8	2 ²¹ /32
	mn	1 261.9	238.1	228.6	241.3	50.8	47.6	31.8	144	136.1	82.3	34.9	27	102.4	15.9	67.4
	in.	13 ²¹ /32	12¾	12¾	9 ½	2	1 1 1/8	1 1⁄4	5 ⁴³ ⁄64	5 ²³ ⁄64	3 ¹ / ₄	1 %	1 1⁄16	41/32	5⁄8	2 ²¹ /32
12′	mn	n 346.9	329.9	314.3	241.3	50.8	47.6	31.8	144	136.1	82.3	34.9	27	102.4	15.9	67.4
	in.	17 ²³ /32	16¾	16¾	9½	3 ¹ /4	1 ⁵ ⁄16	1 ⁶³ ⁄64	5 ⁹ ⁄16	5¼	3 ²⁵ ⁄64	1 ¾	1 ¹ ⁄16	41/16	41/64	2 ²¹ /32
16′	mn	4 50.1	425.2	415.9	241.3	82.6	33.3	50.4	141.3	133.4	86.1	35.0	27.0	103.1	16.3	67.4

PANEL MOUNTING

Inlet Pressure	Pressure connection is illustrated in both back and bottom configurations.									
Connection* P	See page 4 for available fitting types.									
Approximate	Dial Size	6″	8½″	12″	16″					
	Net Weight	4½ lbs.	7¾ lbs.	10¾ lbs.	14¼ lbs.					
Weight	Shipping Weight	7 lbs.	10 lbs.	15 lbs.	21 lbs.					

*Standard Inlet Fittings: 1/4 NPT Female Back Connection for ranges up to and including 10,000 psi. AMINCO 45-11310 or AUTOCLAVE F-250-C for ranges over 10,000 psi.



- Beryllium copper: 0-15 through 0-40 psi • 403 SS: 0-50 through 0-100,000 psi
- **Inches Mercury**
- Beryllium copper: 0-30 through 0-75 psi • 403 SS: 0-100 through 0-1000 psi

Vacuum

- Beryllium copper: -30-0
- Compound

Beryllium copper:

- 15" Hg-15" Hg through 30" Hg-60 Hg" • 403 SS:
- 30" Hg-100" Hg through 30" Hg-150 Hg" • Beryllium copper:
- 30"Hg-15 psi through 30"Hg-30 psi • 403 SS:
- 30" Hg-60 psi through 30" Hg-300 psi Inches Water
- Beryllium copper: 0-450 through 0-1000 METRIC

Millimeters Mercury

- Beryllium copper: 0-750 through 0-2000
- 403 SS: 0-2500 through 0-5000 bar - kg/cm² - kp/cm²
- Beryllium copper: 0-1 through 0-2.5
- 403 SS: 0-3 through 0-7000

kPa

- Beryllium copper: 0-100 through 0-250 403 SS: 0.300 through 0-10,000
- mPa
- 403 SS: 0-1 through 0-700

Vacuum

 $bar - kg/cm^2 - kp/cm^2$

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• Beryllium copper: -1 to 0
kPa
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• Beryllium copper: -100 to 0



BULLETIN HE-2