# Cecomp<sup>®</sup> Battery Powered Digital Pressure Gauges

#### **Ranges and Resolution**

Resolution is fixed and limited by number of display digits. 2, 20, 200, or 2000 ranges display 1.999, 19.99, 199.9, or 1999 respectively. If vacuum gauge requires a minus sign, please specify. Contact factory for special engineering units.

		nce pressure nce vacuum	+ 1	A option not availa	IDIC
A absolute			Dee		D
PSI	Res	inHg/PSI	Res	mmH₂O	Re
3PSIG <sup>‡</sup>	.01	-30V15PSIG <sup>‡</sup>	.1	2000MMH20G*	1
5PSIG <sup>‡</sup>	.01	-30V100PSIG <sup>‡</sup>	.1	3500MMH20G**	1
15PSIA	.01	-30V200PSIG <sup>‡</sup>	.1	cmH₂O	Re
15PSIVAC <sup>‡</sup>	.01	inH₂O	Res	200CMH20G <sup>‡</sup>	.1
±15PSIG <sup>‡</sup>	.1	85INH20G <sup>‡</sup>	.1	350CMH20G <sup>‡</sup>	1
					-
15PSIG	.01	140INH20G <sup>‡</sup>	.1	1000CMH20A	1
30PSIA	.1	400INH20A	1	1000CMH20VAC <sup>‡</sup>	1
30PSIG <sup>‡</sup>	.1	400INH20VAC <sup>‡</sup>	1	±1000CMH20G <sup>‡</sup>	1
60PSIG	.1	±400INH20G <sup>‡</sup>	1	1000CMH20G	1
100PSIA	.1	400INH20G	1	2000CMH20A	1
-15V100PSIG*	.1	850INH20A	1	2000CMH20G	1
100PSIG	.1	850INH20G	1	kPa	Re
-15V200PSIG <sup>‡</sup>	.1	ftH₂O	Res	20KPAG <sup>‡</sup>	0.
200PSIG	.1	7FTH20 <sup>‡</sup>	.01	35KPAG <sup>‡</sup>	.1
300PSIG <sup>‡</sup>	1	12FTH20 <sup>‡</sup>	.01	100KPAA	.1
					-
500PSIG	1	35FTH20 <sup>‡</sup>	.1	100KPAVAC <sup>‡</sup>	.1
1000PSIG	1	70FTH20	.1	±100KPAG <sup>‡</sup>	.1
2000PSIG	1	140FTH20	.1	100KPAG	.1
3000PSIG	1	230FTH20 <sup>‡</sup>	1	200KPAA	
5000PSIG	1	480FTH20	1	200KPAG	.1
					-
oz/in²	Res	700FTH20	1	400KPAG	1
50ZING <sup>‡</sup>	.1	1150FTH20	1	700KPAA	1
80ZING <sup>‡</sup>	.1	2300FTH20*	1	700KPAG	1
240ZINA <sup>‡</sup>	1	4600FTH20*	1	-100V700KPAG <sup>‡</sup>	1
240ZINVAC <sup>‡</sup>	1	6900FTH20*	1	1400KPAG	1
±240ZING <sup>‡</sup>	1	mmHg	Res	-100V1400KPAG <sup>‡</sup>	1
240ZING <sup>‡</sup>	1	150MMHGG <sup>‡</sup>	.1	2000KPAG	1
480ZINA	1	260MMHGG <sup>‡</sup>	1	3500KPAG*	1
480ZING	1	760MMHGA	1	7000KPAG*	1
inHg	Res	760MMHGVAC*	1	MPa	Re
			_		
6INHGG <sup>‡</sup>	.01	±760MMHGG <sup>‡</sup>	1	1.4MPAG	.00
10INHGG <sup>‡</sup>	.01	760MMHGG	1	-0.1V1.4MPAG <sup>‡</sup>	.00
30INHGA <sup>‡</sup>	.1	1600MMHGA	1	2MPAG	.00
30INHGVAC <sup>‡</sup>	.1	1600MMHGG	1	3.5MPAG <sup>‡</sup>	.0
±30INHGG <sup>‡</sup>	.1	Torr	Res	7MPAG	.0
				-	-
30INHGG <sup>‡</sup>	.1	760TORRA	1	14MPAG	.0
60INHGA	.1	760TORRVAC <sup>‡</sup>	1	20MPAG	.0
60INHGG	.1	1600TORRA	1	35MPAG <sup>‡</sup>	
120INHGG	.1	mbar	Res	g/cm²	Re
200INHGA	.1	200MBARG <sup>‡</sup>	.1	200GCMG <sup>‡</sup>	
-30V200INHGG*	.1	350MBARG <sup>‡</sup>	1	350GCMG <sup>‡</sup>	-
			1		
200INHGG	.1	1000MBARA			-
-30V400INHGG <sup>‡</sup>			1	1000GCMA	1
	1	1000MBARVAC <sup>‡</sup>	1 1	1000GCMA 1000GCMVAC <sup>‡</sup>	1
400INHGG	1 1		-		1
400INHGG	1	1000MBARVAC* ±1000MBARG*	1 1	1000GCMVAC <sup>‡</sup> ±1000GCMG <sup>‡</sup>	1 1 1
400INHGG 600INHGG	1	1000MBARVAC* ±1000MBARG <sup>‡</sup> 1000MBARG	1 1 1	1000GCMVAC <sup>‡</sup> ±1000GCMG <sup>‡</sup> 1000GCMG	1 1 1
400INHGG 600INHGG 1000INHGG	1 1 1	1000MBARVAC* ±1000MBARG* 1000MBARG 2000MBARA	1 1 1 1	1000GCMVAC <sup>‡</sup> ±1000GCMG <sup>‡</sup> 1000GCMG 2000GCMA	1 1 1 1
400INHGG 600INHGG 1000INHGG 2000INHGG	1 1 1	1000MBARVAC <sup>‡</sup> ±1000MBARG <sup>‡</sup> 1000MBARG 2000MBARA 2000MBARG	1 1 1 1	1000GCMVAC <sup>‡</sup> ±1000GCMG <sup>‡</sup> 1000GCMG 2000GCMA 2000GCMG	1 1 1 1
400INHGG 600INHGG 1000INHGG 2000INHGG	1 1 1	1000MBARVAC* ±1000MBARG* 1000MBARG 2000MBARA	1 1 1 1	1000GCMVAC <sup>‡</sup> ±1000GCMG <sup>‡</sup> 1000GCMG 2000GCMA	1 1 1 1
400INHGG 600INHGG 1000INHGG 2000INHGG	1 1 1	1000MBARVAC <sup>‡</sup> ±1000MBARG <sup>‡</sup> 1000MBARG 2000MBARA 2000MBARG	1 1 1 1	1000GCMVAC <sup>‡</sup> ±1000GCMG <sup>‡</sup> 1000GCMG 2000GCMA 2000GCMG	1 1 1 1 1 8
400INHGG 600INHGG 1000INHGG 2000INHGG 4000INHGG*	1 1 1 1 1 Res	1000MBARVAC <sup>‡</sup> ±1000MBARG <sup>‡</sup> 1000MBARG 2000MBARA 2000MBARG bar	1 1 1 1 Res .001	1000GCMVAC <sup>‡</sup> ±1000GCMG <sup>‡</sup> 1000GCMG 2000GCMA 2000GCMG kg/cm <sup>2</sup> 1KGCMA	1 1 1 1 1 8 6 .00
400INHGG 600INHGG 1000INHGG 2000INHGG 4000INHGG* atm 1ATMA	1 1 1 1 Res .001	1000MBARVAC‡ ±1000MBARG‡ 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARVAC‡	1 1 1 1 Res .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG kg/cm <sup>2</sup> 1KGCMA 1KGCMVAC*	1 1 1 1 1 1 8 6 .00 .00
400INHGG 600INHGG 1000INHGG 2000INHGG 4000INHGG* atm 1ATMA 1ATMA 1ATMVAC*	1 1 1 1 Res .001	1000MBARVAC <sup>‡</sup> ±1000MBARG <sup>‡</sup> 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARVAC <sup>‡</sup> ±1BARG <sup>‡</sup>	1 1 1 1 Res .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG kg/cm <sup>2</sup> 1KGCMA 1KGCMVAC* ±1KGCMG*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* atm 1ATMA 1ATMVAC* ±1ATMG*	1 1 1 1 Res .001 .001	1000MBARVAC* ±1000MBARG* 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARAA 1BARVAC* ±1BARG* 1BARG	1 1 1 1 .001 .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG kg/cm <sup>2</sup> 1KGCMA 1KGCMVAC* ±1KGCMG* 1KGCMG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
400INHGG 600INHGG 1000INHGG 2000INHGG 4000INHGG* atm 1ATMA 1ATMA 1ATMVAC*	1 1 1 1 Res .001	1000MBARVAC <sup>‡</sup> ±1000MBARG <sup>‡</sup> 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARVAC <sup>‡</sup> ±1BARG <sup>‡</sup>	1 1 1 1 Res .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG kg/cm <sup>2</sup> 1KGCMA 1KGCMVAC* ±1KGCMG*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* atm 1ATMA 1ATMVAC* ±1ATMG*	1 1 1 1 Res .001 .001	1000MBARVAC* ±1000MBARG* 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARAA 1BARVAC* ±1BARG* 1BARG	1 1 1 1 .001 .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG kg/cm <sup>2</sup> 1KGCMA 1KGCMVAC* ±1KGCMG* 1KGCMG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
400INHGG 600INHGG 1000INHGG 2000INHGG 4000INHGG* 1ATMA 1ATMAC <sup>‡</sup> ±1ATMG <sup>‡</sup> 1ATMG 2ATMA	1 1 1 1 .001 .001 .001 .001	1000MBARVAC‡ ±1000MBARG‡ 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARAA 1BARVAC‡ ±1BARG‡ 1BARG 2BARA 2BARG	1 1 1 Res .001 .001 .001 .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMG 2000GCMG 2000GCMG 1KGCMA 1KGCMA ±1KGCMG4 1KGCMG 2KGCMA 2KGCMG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
400INHGG 600INHGG 1000INHGG 2000INHGG 4000INHGG* 4000INHGG* 1ATMA 1ATMA 1ATMVAC <sup>‡</sup> ±1ATMG <sup>‡</sup> 1ATMG 2ATMA 2ATMG	1 1 1 1 001 001 001 001 001	1000MBARVAC <sup>‡</sup> ±1000MBARG <sup>‡</sup> 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARAA ±1BARG <sup>‡</sup> 1BARG 2BARA 2BARG 4BARG	1 1 1 1 .001 .001 .001 .001 .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG Kg/cm <sup>2</sup> 1KGCMA 1KGCMAC* ±1KGCMG 2KGCMG 2KGCMA 2KGCMG 4KGCMG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
400INHGG 600INHGG 1000INHGG 2000INHGG 4000INHGG* <b>atm</b> 1ATMA 1ATMA 1ATMVAC <sup>‡</sup> ±1ATMG <sup>‡</sup> 1ATMG 2ATMA 2ATMG 4ATMG	1 1 1 1 1 .001 .001 .001 .001 .001 .001	1000MBARVAC‡ ±1000MBARG‡ 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARA 1BARVAC‡ ±1BARG 2BARA 2BARG 4BARG 7BARA	1 1 1 1 .001 .001 .001 .001 .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG Kg/cm <sup>2</sup> 1KGCMA 1KGCMAC* ±1KGCMG 2KGCMA 2KGCMG 4KGCMG 4KGCMG	11 11 11 11 10 10 00 00 00 00 00 00 00 0
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* 4000INHGG* 4000INHGG* 41ATMA ±1ATMA ±1ATMG* ±1ATMG 2ATMG 2ATMA 2ATMG 4ATMG 7ATMA	1 1 1 1 1 1 .001 .001 .001 .001 .001 .0	1000MBARVAC‡ ±1000MBARG‡ 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARVAC‡ ±1BARG 2BARA 2BARG 4BARG 7BARA 7BARG	1 1 1 1 .001 .001 .001 .001 .001 .01 .01	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG 1KGCMA 1KGCMG ±1KGCMG 2KGCMA 2KGCMA 2KGCMA 2KGCMG 4KGCMG 7KGCMA	11 11 11 11 11 10 10 10 10 10 10 10 10 1
400INHGG 600INHGG 1000INHGG 2000INHGG 4000INHGG* <b>atm</b> 1ATMA 1ATMA 1ATMVAC <sup>‡</sup> ±1ATMG <sup>‡</sup> 1ATMG 2ATMA 2ATMG 4ATMG	1 1 1 1 1 .001 .001 .001 .001 .001 .001	1000MBARVAC‡ ±1000MBARG‡ 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARA 1BARVAC‡ ±1BARG 2BARA 2BARG 4BARG 7BARA	1 1 1 1 .001 .001 .001 .001 .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG Kg/cm <sup>2</sup> 1KGCMA 1KGCMAC* ±1KGCMG 2KGCMA 2KGCMG 4KGCMG 4KGCMG	11 11 11 11 11 10 10 10 10 10 10 10 10 1
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* 4000INHGG* 4000INHGG* 41ATMA ±1ATMA ±1ATMG* ±1ATMG 2ATMG 2ATMA 2ATMG 4ATMG 7ATMA	1 1 1 1 1 1 .001 .001 .001 .001 .001 .0	1000MBARVAC‡ ±1000MBARG‡ 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARVAC‡ ±1BARG 2BARA 2BARG 4BARG 7BARA 7BARG	1 1 1 1 .001 .001 .001 .001 .001 .01 .01	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG 1KGCMA 1KGCMG ±1KGCMG 2KGCMA 2KGCMA 2KGCMA 2KGCMG 4KGCMG 7KGCMA	11 11 11 11 10 00 00 00 00 00 00 00 00 0
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* 4000INHGG* 4000INHGG* 4000INHGG* 44TMA 24TMA 24TMA 24TMA 24TMG 44TMG 74TMA 74TMG -1V7ATMG*	1 1 1 1 .001 .001 .001 .001 .001 .001	1000MBARVAC‡ ±1000MBARG 2000MBARA 2000MBARA 1BARA 1BARA 1BARVAC‡ ±1BARG 2BARA 2BARA 2BARG 4BARG 7BARA 7BARA -1V7BARG‡ 14BARG	1 1 1 1 .001 .001 .001 .001 .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMG 2000GCMG 1KGCMA 1KGCMA 1KGCMA ±1KGCMG* 2KGCMA 2KGCMG 2KGCMA 2KGCMG 7KGCMA 7KGCMG -1V7KGCMG*	11 11 11 11 11 10 00 00 00 00 00 00 00 0
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* 4000INHGG* 1ATMA 1ATMVAC* ±1ATMG 2ATMA 2ATMG 2ATMA 2ATMG 7ATMA 7ATMG -1V7ATMG <sup>‡</sup> 14ATMG	1 1 1 1 1 1 8 8 8 .001 .001 .001 .001 .0	1000MBARVAC‡ ±1000MBARG 2000MBARA 2000MBARA 100ARG bar 1BARA 1BARVAC‡ ±1BARG‡ 1BARG 2BARA 2BARA 2BARA 2BARA 2BARG 4BARG 7BARA 7BARA 7BARG -1V7BARG‡	1 1 1 1 .001 .001 .001 .001 .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMG 2000GCMG 1KGCMA 1KGCMA 1KGCMG4 ±1KGCMG4 1KGCMG 2KGCMG 2KGCMG 4KGCMG 7KGCMA 7KGCMG -1V7KGCMG* 14KGCMG -1V14KGCMG*	11 11 11 11 11 11 11 11 11 11 11 10 00 0
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* 1ATMA 1ATMVAC* ±1ATMG* 1ATMG 2ATMA 2ATMG 2ATMA 2ATMG 4ATMG 7ATMA 7ATMG -1V7ATMG* 14ATMG -1V14ATMG	1 1 1 1 1 1 1 8 8 8 001 001 001 001 001	1000MBARVAC‡ ±1000MBARG 2000MBARA 2000MBARA 1BARA 1BARA 1BARVAC‡ ±1BARG‡ 1BARG 2BARA 2BARG 4BARG 4BARG 7BARA 7BARA 7BARG -1V7BARG‡ 14BARG 20BARG	1 1 1 1 .001 .001 .001 .001 .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMG 4000GCMG 1KGCMA 1KGCMA 1KGCMG4 ±1KGCMG* 1KGCMG 2KGCMG 4KGCMG 4KGCMG 4KGCMG 7KGCMA 7KGCMA 7KGCMG -1V7KGCMG* 14KGCMG 1V14KGCMG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* 1ATMA 1ATMA 1ATMVAC* ±1ATMG* 1ATMG 2ATMA 2ATMG 2ATMA 2ATMG 4ATMG 7ATMA 7ATMG -1V7ATMG* 14ATMG -1V14ATMG 20ATMG	1 1 1 1 1 1 8 8 8 .001 .001 .001 .001 .0	1000MBARVAC‡ ±1000MBARG 2000MBARA 2000MBARA 1BARA 1BARA 1BARVAC‡ ±1BARG 2BARA 2BARG 2BARA 2BARG 4BARG 7BARA 7BARG -1V7BARG‡ 14BARG -1V14BARG‡ 20BARG	1 1 1 1 .001 .001 .001 .001 .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMG kg/cm <sup>2</sup> 1KGCMA 1KGCMAC* ±1KGCMG* 2KGCMG 2KGCMG 4KGCMG 4KGCMG 7KGCMA 7KGCMA 7KGCMG -1V7KGCMG* 14KGCMG 14KGCMG 20KGCMG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* 1ATMA 1ATMVAC* ±1ATMG* 1ATMG 2ATMA 2ATMG 2ATMA 2ATMG 4ATMG 7ATMA 7ATMG -1V7ATMG* 14ATMG -1V14ATMG	1 1 1 1 1 1 1 8 8 8 001 001 001 001 001	1000MBARVAC‡ ±1000MBARG 2000MBARA 2000MBARA 1BARA 1BARA 1BARVAC‡ ±1BARG‡ 1BARG 2BARA 2BARG 4BARG 4BARG 7BARA 7BARA 7BARG -1V7BARG‡ 14BARG 20BARG	1 1 1 1 .001 .001 .001 .001 .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMG 4000GCMG 1KGCMA 1KGCMA 1KGCMG4 ±1KGCMG* 1KGCMG 2KGCMG 4KGCMG 4KGCMG 4KGCMG 7KGCMA 7KGCMA 7KGCMG -1V7KGCMG* 14KGCMG 1V14KGCMG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* 1ATMA 1ATMA 1ATMVAC* ±1ATMG* 1ATMG 2ATMA 2ATMG 2ATMA 2ATMG 4ATMG 7ATMA 7ATMG -1V7ATMG* 14ATMG -1V14ATMG 20ATMG	1 1 1 1 1 1 1 8 8 001 001 001 001 001 00	1000MBARVAC‡ ±1000MBARG 2000MBARA 2000MBARA 1BARA 1BARA 1BARVAC‡ ±1BARG 2BARA 2BARG 2BARA 2BARG 4BARG 7BARA 7BARG -1V7BARG‡ 14BARG -1V14BARG‡ 20BARG	1 1 1 1 .001 .001 .001 .001 .001 .001	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMG kg/cm <sup>2</sup> 1KGCMA 1KGCMAC* ±1KGCMG* 2KGCMG 2KGCMG 4KGCMG 4KGCMG 7KGCMA 7KGCMA 7KGCMG -1V7KGCMG* 14KGCMG 14KGCMG 20KGCMG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* 1ATMA 1ATMAC* ±1ATMG* 1ATMG 2ATMA 2ATMG 2ATMA 2ATMG 4ATMG 7ATMA 7ATMG -1V7ATMG* 14ATMG 20ATMG 34ATMG <sup>†</sup> 70ATMG	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000MBARVAC‡ ±1000MBARG 2000MBARA 2000MBARA 1BARA 1BARA 1BARVAC‡ ±1BARG 1BARG 2BARG 2BARG 2BARG 2BARG 7BARG 7BARG 7BARG -1V7BARG‡ 14BARG 35BARG 35BARG 140BARG	1 1 1 1 <b>Res</b> .001 .001 .001 .001 .011 .01 .01 .01 .0	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG 1KGCMA * 1KGCMG* 1KGCMG4 1KGCMG 2KGCMG 2KGCMG 4KGCMG 7KGCMG 7KGCMG 14KGCMG 2VKGCMG 14KGCMG 35KGCMG <sup>4</sup> 70KGCMG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* ±1ATMA 1ATMAC* ±1ATMG* 1ATMG 2ATMA 2ATMG 2ATMA 2ATMG 4ATMG -1V7ATMG* 14ATMG -1V14ATMG 34ATMG <sup>†</sup> 70ATMG 140ATMG	1 1 1 1 1 001 .001 .001 .001 .001 .01 .0	1000MBARVAC‡ ±1000MBARG 1000MBARG 2000MBARA 2000MBARA 1BARA 1BARA 1BARA 1BARG ±1BARG 2BARA 2BARG 2BARA 2BARG 4BARG 7BARA 7BARG -1V7BARG‡ 14BARG 20BARG 33BARG‡ 70BARG 140BARG 140BARG	1 1 1 1 .001 .001 .001 .001 .001 .01 .01	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG 1KGCMA * 1KGCMG* 1KGCMG4 1KGCMG 2KGCMG 2KGCMG 4KGCMG 7KGCMG 7KGCMG 1V7KGCMG* 20KGCMG 35KGCMG 140KGCMG 140KGCMG	R 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.
400INHGG 600INHGG 1000INHGG 2000INHGG* 4000INHGG* 1ATMA 1ATMA 1ATMVAC* ±1ATMG* 1ATMG 2ATMA 2ATMG 2ATMA 7ATMG 14ATMG -1V7ATMG* 14ATMG 20ATMG 34ATMG <sup>†</sup> 70ATMG	1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000MBARVAC‡ ±1000MBARG 2000MBARA 2000MBARA 1BARA 1BARA 1BARVAC‡ ±1BARG 1BARG 2BARG 2BARG 2BARG 2BARG 7BARG 7BARG 7BARG -1V7BARG‡ 14BARG 35BARG 35BARG 140BARG	1 1 1 1 <b>Res</b> .001 .001 .001 .001 .011 .01 .01 .01 .0	1000GCMVAC* ±1000GCMG* 2000GCMG 2000GCMA 2000GCMG 1KGCMA * 1KGCMG* 1KGCMG4 1KGCMG 2KGCMG 2KGCMG 4KGCMG 7KGCMG 7KGCMG 14KGCMG 2VKGCMG 14KGCMG 35KGCMG <sup>4</sup> 70KGCMG	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

340ATMG<sup>‡</sup>

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#### Accuracy

Accuracy includes linearity, hysteresis, repeatability Standard accuracy:  $\pm 0.25\%$  of full scale  $\pm 1$  least significant digit **HA** accuracy option:  $\pm 0.1\%$  FS  $\pm 1$  LSD, see ranges for availability Sensor hysteresis: ±0.015% FS, included in accuracy Sensor repeatability: ±0.01% FS, included in accuracy

#### Display

3 readings per second nominal display update rate Ranges to 2000: 3.5 digit (1999) LCD, 0.5" H digits Ranges >2000: 4 digit LCD, 0.5" H digits, 5 character 0.25" H alphanumeric lower display

BL models: Red LED display backlight Batteries, Low Battery Indication, Battery Life Two AA alkaline included

n on display (battery life is approximate)
2500 hours
2000 hours
180 hours
150 to 1500 hours
Front button turns gauge on/off, starts auto shutoff timer
Front button turns gauge on/off, starts auto shutoff timer, backlight is on when gauge is on.
Front button turns gauge on/off, starts auto shutoff timer, zeros display (gauge ref. only)
Front button turns gauge on/off, starts auto shutoff timer, activates backlighting for one minute, zeros display (gauge ref. only)

## Auto Shutoff

Factory set to 5, 10, 30 minutes, or on/off Ranges >2000 can be factory set to custom minutes or hours

Calibration

Front calibration potentiometers, non-interactive
zero and span, ±10% range
Internal calibration buttons, non-interactive

#### zero, span, and linearity, ±10% of range Housing Material

DPG1000B: Extruded aluminum case, epoxy powder coated, ABS/ polycarbonate bezel (aluminum bezel with MC option), front and rear gaskets, polycarbonate label

F4B: UV stabilized ABS/polycarbonate NEMA 4X case, clear polycarbonate display window, polycarbonate front label, rear gasket, six captive stainless steel cover screws

#### Weight

Approximately 9 ounces, shipping weight 1 pound.

#### Connection and Material

1/4" NPT male fitting, 316L stainless steel All wetted parts are 316L stainless steel

#### Overpressure, Burst, Vacuum

Ranges using 3000 psig sensor: 5000 psig Ranges using 5000 psig sensor: 7500 psig 2 X pressure range All others: 3000 psi, 5000 psi, and 4 digit ranges 112.5% full scale out-ofrange display: 1---or I ----

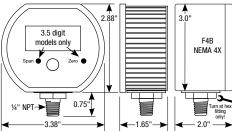
4 X sensor burst pressure rating, or 10,000 psi, whichever is less Vacuum service: 15 psia, ±15 psig, 15 psig, 30 psia,

100 psig, 100 psia, 200 psig sensors

#### **Environmental Temperatures**

Storage temperature: Operating (3.5 digit versions): Operating (4 digit versions): Compensated range:

-40 to 203°F (-40 to 95°C) -40 to 185°F (-40 to 85°C) -4 to 185°F (-20 to 85°C) 32 to 158°F (0 to 70°C)



3.5 digit models use plastic caps on potentiometers, F4 covers are nylon screws with o-rings. 4 digit models use internal buttons.

#### Examples

DPG1000B100PSIG-5-HA: 100.0 psig, 5 min. shutoff, high accuracy F4BBL-100V700KPAG-ON: NEMA 4X, backlit display, -100 to 700 kPa. on/off via front button



±0.25% Test Gauge Accuracy

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316L Stainless Steel Wetted Parts



F4B, NEMA 4X 4 Digit Ranges

How to Specify	Туре
DPG1000B range - time - options	Standard housing
DPG1000BBL range - time - options	Standard housing, backlit display
F4B range - time - options	NEMA 4X housing
F4BBL range - time - options	NEMA 4X housing, backlit display

#### Range: See table at left

Time—	auto shutoff time
5	5 minutes. Default if not specified.
10	10 minutes
30	30 minutes
ON	No auto shutoff. On/off via front button.
Option	s-add to end of model number. See price list for details.
HA	High accuracy, $\pm 0.1\%$ FS $\pm 1$ LSD. See range table.
PM	Panel mount, 4.1" x 4.1". DPG1000 only.
FP	Sealed housing and CC for high humidity food process- ing applications. F4B in absolute reference ranges only.
MC	Metal front cover instead of plastic. DPG1000 only.
CS	Case bottom stiffener plate. DPG1000 only.
CC	Moisture resistant circuit board conformal coating
TP	Top port, gauge port on top of case. DPG1000 only.
SM	Surface mount plate. DPG1000 only.
CD	Calibration data; 5 test points and date
NC	NIST traceability documentation, 5 points and date

Top gauge port. Primarily used with tire pressure applications. Not available with NEMA 4X models.



#### Accessories—order separately

## RB

High visibility orange rubber boot protects gauge for portable applications. Not available with NEMA 4X models

## SCR14SS

Filter screen fitting keeps debris out of gauge sensor. For food vacuum packaging applications. 303SS body, 100 micron 304SS screen. CON14SS

Quick connector to install or remove gauge without tools. 304 stainless steel, urethane seal,





# Instructions

## Types of Gauges

Gauge reference types read zero with the gauge port open.

Bipolar ranges read positive pressure and vacuum in the same units, and zero with the gauge port open.

1000 psi and higher sensor are a sealed reference type. They read zero with the gauge port open are internally referenced to 14.7 psi. Functionally similar to gauge reference sensors.

Absolute reference gauges read zero at full vacuum and atmospheric pressure with the gauge port open. With an open gauge port the readings will vary continuously due to the effects of barometric pressure.

#### Precautions

- Read these instructions before using the gauge. Contact the factory for assistance.
- These products do not contain user-serviceable parts. Contact us for repairs, service, or refurbishment.
- Gauges must be operated within specified ambient temperature ranges.
- Outdoor or wash down applications require a NEMA 4X gauge or installation in a NEMA 4X housing.
- ✓ Use a pressure or vacuum range appropriate for the application.
- ✓ Use fittings appropriate for the pressure range of the gauge.
- Due to the hardness of 316 stainless steel, it is recommended that a thread sealant be used to ensure leak-free operation.
- For contaminated media use an appropriate screen or filter to keep debris out of gauge port.
- ✓ Remove system pressures before removing or installing gauge.
- Install or remove gauge using a wrench on the hex fitting only. Do not attempt to turn gauge by forcing the housing.
- Good design practice dictates that positive displacement liquid pumps include protection devices to prevent sensor damage from pressure spikes, acceleration head, and vacuum extremes.
- Avoid permanent sensor damage! Do not apply vacuum to nonvacuum gauges or hydraulic vacuum to any gauges.
- X Avoid permanent sensor damage! NEVER insert objects into gauge port or blow out with compressed air.
- Gauges are not for oxygen service. Accidental rupture of sensor diaphragm may cause silicone oil inside sensor to react with oxygen.

#### **Battery Replacement**

A low battery indication (either LOBAT or a symbol depending on the model) will be shown in the upper left corner of the display when the battery voltage falls sufficiently. The battery should be replaced soon after the indicator comes to prevent unreliable readings.

WARNING: Batteries must be changed in a non-hazardous location only. Do not mix different batteries or fresh batteries with old. Replace both batteries with new ones at the same time.

- 1. Remove the 6 Phillips screws on the back of the gauge.
- 2. Remove battery retainer clip.
- 3. Remove batteries by lifting up the positive end of the battery (opposite the spring) taking care not to bend the spring.
- Discard old batteries properly. See battery manufacturer's recommendations for disposal or recycling.
- Install batteries with correct orientation. Insert the negative (flat) end of each battery first towards the battery holder spring.
- 6. Replace the clip and back cover, including the rubber gasket.

#### Operation, 3.5 Digit Models

Press the button on the front of the gauge to activate the display. The gauge can be shut off at any time by pressing the button again. The gauge will stay on for a period of time determined by the auto shutoff time. If the gauge was ordered without auto shutoff (-ON) it will stay on until the button is pressed or until the batteries are depleted. Display backlighting for BL models is on whenever the gauge is on. The backlighting will not be apparent under bright lighting conditions. Turn gauge off when not in use to conserve batteries.

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

CECOMP Div. of ABSOLUTE PROCESS INSTRUMENTS

## Operation, 4 Digit Models

Press and hold the front button for approximately 1 second. The full-scale range is indicated, the display is tested, and the reading and units are displayed.

The gauge may be zeroed at power-up by following the procedure below. Absolute reference gauges do not use the zero feature since they normally read atmospheric pressure.

Make sure the gauge port is exposed to normal atmospheric pressure with no pressure applied. The zero function is only used at power-up and the stored zero correction is erased when the gauge is shut off.

Press and hold the front button.

The full-scale range is indicated and the display is tested.

Continue to press the button until *aaaa* is displayed and then release the button.

The gauge is now zeroed and ready for use with the actual pressure is displayed.

Attempting to zero the gauge with pressure greater than approximately 3% of full-scale applied will result in an error condition, and the display will alternately indicate ErrO and the actual measured pressure. The gauge must be powered down to reset the error condition.

Following the start-up initialization, the display indicates the pressure reading updated approximately 3 times per second. The auto shutoff timer starts when the gauge is powered up or whenever the button is pushed, unless the gauge was ordered without an auto shutoff time (-ON option).

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

Display backlighting for BL models can be turned on by momentarily pressing the button whenever the gauge is on. The backlight will turn on for one minute and then automatically shut off. This also restarts the auto shutoff timer. The display backlighting will not be apparent under bright lighting conditions.

To shut off the gauge at any time, press and hold the button until the display indicates DFF (about 5 seconds) and then release.

For gauges with auto shutoff, the display indicates *DFF* five seconds prior to auto shutoff. The button can be pressed to keep the gauge on. The auto shutoff and backlight (if equipped) timers are reset whenever the button is pressed and released.

If the gauge was ordered without auto shutoff (-ON option) 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.

#### **Calibration Preparation, All Models**

All gauges are factory calibrated using NIST traceable calibration equipment. Calibration is not required before using the gauge. Calibration intervals vary depending on your quality standards, but annual recalibration is customary.

Calibration equipment is not required to zero gauge reference ranges. Absolute reference ranges may be zeroed with application of full vacuum.

Span calibration should only be performed using appropriate calibration procedures with calibration standards that are at least four times more accurate than the gauge being calibrated.

The calibration system must be able to generate and measure pressure/vacuum over the full range of the gauge. A vacuum pump able to produce a vacuum of 100 microns (0.1 torr or 100 millitorr) or lower is required for vacuum and absolute gauges.

Install fresh batteries before calibrating battery-powered gauges. Allow the gauge to equalize to normal room temperature for approximately 20 minutes before calibration.

#### Calibration, 3.5 Digit Models

Remove the front covers to access the zero and span calibration potentiometers. F4B models use nylon cover screws.

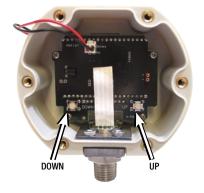
Gauges may be re-zeroed without affecting the span calibration. For gauge reference models the gauge port must be open to the ambient. For absolute reference models full vacuum must be applied. Adjust the zero control until the gauge reads zero with the minus (-) sign occasionally flashing.

Zero calibration must be done before span calibration. Using the appropriate pressure standards, record readings at three to five points over the range of gauge and adjust span control to minimize error and meet specifications.

## Calibration, 4 Digit Models

### Entering Calibration Mode

Remove the rear cover to gain access to the UP and DOWN buttons located near the lower right and left corners of the circuit board.



With the gauge off, press and hold the DOWN calibration button, and also press the front button.

The full-scale pressure range and display test is shown, and then CAL is displayed to indicate that the calibration mode is enabled.

Release all buttons. The gauge enters and remains in the calibration mode until restarted manually or power is removed. Features not related to calibration are disabled. If the battery pack is unplugged or the power removed during calibration, settings will not be saved. The display will indicate the current pressure reading, updating aporoximately 3 times per second.

Each press of the UP or DOWN button makes a small correction, which may not always be indicated on the display. Press and hold the button for one second or longer to make larger corrections. The gauge's display is adjusted to match the calibrator's reading.

#### Gauge Reference Ranges (3 Points)

With the gauge port open to atmosphere, the character display will alternate between ZERO and CAL. Press the UP and DOWN buttons to obtain a display indication of zero.

Apply full-scale pressure (or vacuum for vacuum gauges). The character display will alternate between +SPAN and CAL. Press the UP and DOWN buttons to obtain a display indication equal to full-scale pressure.

Apply 50% of full-scale pressure. The character display will alternate between +MID and CAL. Use the UP and DOWN buttons to obtain a display indication equal to 50% of full-scale pressure.

#### Absolute Reference Ranges (3 Points)

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

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

Apply 50% of full-scale pressure. The character display will alternate between +MID and CAL. Press the UP and DOWN buttons to obtain a display indication equal to 50% of full-scale pressure.

#### Bipolar (±) and Compound Ranges (4 or 5 Points)

With the gauge port open to atmosphere, the character display will alternate between ZERO and CAL. Press the UP and DOWN buttons to obtain a display indication of zero.

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

Apply 50% of full-scale positive pressure. The character display will alternate between +MID and CAL. Press the UP and DOWN buttons to obtain a display indication equal to 50% of full-scale pressure.

Apply full vacuum. The character display will alternate between – SPAN and CAL. Press the UP and DOWN buttons to obtain a display indication equal to the full vacuum reading.

Gauges using a  $\pm 15$  psig sensor have a –MID calibration point. Apply 50% of the full-scale vacuum range (for example, –7.4 psi for a  $\pm 15$  psi gauge). The character display will alternate between –MID and CAL. Press the UP and DOWN buttons to obtain a display indication equal to 50% of full-scale vacuum.

#### Exit Calibration Mode and Verify Calibration

Exit the calibration mode and save the calibration data by pressing and holding the front button until the display indicates  $\mbox{OFF}.$ 

Verify readings at 0%, 25%, 50%, 75%, and 100% of full scale.

Replace the rear cover and screws, taking care not to pinch the battery leads between the case and the rear cover.

# DPG1000B, F4B 🔏 🍿