Cecomp® Low Voltage 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. Please specify if vacuum gauge requires a minus sign. Contact factory for special engineering units. For models with more display resolution or HA availability see F16AD series.

G VAC A	gauge r		nce pressure	* 4	digit range	
Α		etere			uigit lalige	
		a rafe	nce vacuum	‡⊦	IA option not availa	ble
	absolute		(_		-
	PSI	Res	inHg/PSI	Res	mmH₂O	Res
3F	PSIG [‡]	.01	-30V15PSIG [‡]	.1	2000MMH20G [‡]	1
5P	PSIG [‡]	.01	-30V100PSIG*	.1	cmH₂O	Res
-	PSIA	-	-30V200PSIG [‡]			
	-	.01		.1	200CMH20G [‡]	.1
15F	PSIVAC	.01	inH₂O	Res	350CMH20G [‡]	1
±15P	PSIG [‡]	.1	85INH20G [‡]	.1	1000CMH20A	1
15F	PSIG	.01	140INH20G [‡]	.1	1000CMH20VAC [‡]	1
	PSIA [‡]		400INH20A	1	±1000CMH20G [‡]	1
	-	.1				-
30F	PSIG [‡]	.1	400INH20VAC [‡]	1	1000CMH20G	1
60F	PSIG	.1	±400INH20G [‡]	1	2000CMH20A [‡]	1
100F	PSIA	.1	400INH20G	1	2000CMH20G	1
_15V1	00PSIG [‡]	.1	830INH20A [‡]	1	kPa	Res
-						
100F		.1	830INH20G	1	20KPAG [‡]	.01
-15V2	00PSIG [‡]	.1	ftH₂O	Res	35KPAG [‡]	.1
200F	PSIG	.1	7FTH20 [‡]	.01	100KPAA	.1
300F	PSIG [‡]	1	12FTH20 [‡]	.01	100KPAVAC [‡]	.1
				-		<u> </u>
500F		1	35FTH20 [‡]	.1	±100KPAG [‡]	.1
1000F	'SIG	1	70FTH20	.1	100KPAG	.1
2000F	PSIG	1	140FTH20	.1	200KPAA [‡]	.1
3000F	PSIG*	1	230FTH20*	1	200KPAG	.1
5000F		1	460FTH20	1	400KPAG	1
	z/in²	Res	700FTH20	1	700KPAA	1
48Z	ZING‡	.1	1150FTH20	1	700KPAG	1
80Z	ZING‡	.1	mmHg	Res	-100V700KPAG [‡]	1
	ZINA‡	1	150MMHGG [‡]	.1	1400KPAG	1
-						<u> </u>
	ZINVAC	1	260MMHGG [‡]	1	-100V1400KPAG [‡]	1
±2402	ZING‡	1	760MMHGA	1	2000KPAG	1
240Z	ZING‡	1	760MMHGVAC [‡]	1	MPa	Res
4807	ZINA‡	1	±760MMHGG [‡]	1	1.4MPAG	.00
4802		1	760MMHGG	1	-0.1V1.4MPAG [‡]	.00
						<u> </u>
	Hg	Res	1600MMHGA [‡]	1	2MPAG	.00
6IN	IHGG‡	.01	1600MMHGG	1	3.5MPAG [‡]	.01
10IN	IHGG‡	.01	Torr	Res	7MPAG	.01
30IN	IHGA‡	.1	760TORRA	1	14MPAG	.01
	HGVAC	.1	760TORRVAC*	1	20MPAG	.01
		<u> </u>				
±30IN	IHGG+	1.1	1600TORRA [‡]			<u> </u>
		· · ·	TOOUTUIIIA	1	35MPAG [‡]	.1
30IN	IHGG‡	.1	mbar	1 Res	35MPAG [‡] g/cm ²	.1
	ihgg‡ ihga‡	.1		Res		.1 Res
60IN	IHGA‡	.1 .1	mbar 200MBARG‡	Res .1	g/cm ² 200GCMG [‡]	.1 Res .1
60IN 60IN	ihga‡ ihgg	.1 .1 .1	mbar 200MBARG [‡] 350MBARG [‡]	Res .1 1	g/cm ² 200GCMG [‡] 350GCMG [‡]	.1 Res .1 1
60IN 60IN 120IN	IHGA‡ IHGG IHGG	.1 .1 .1 .1	mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA	Res .1 1 1	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA	.1 Res .1 1
60IN 60IN	IHGA‡ IHGG IHGG	.1 .1 .1	mbar 200MBARG [‡] 350MBARG [‡]	Res .1 1	g/cm ² 200GCMG [‡] 350GCMG [‡]	.1 Res .1 1
60IN 60IN 120IN 200IN	IHGA‡ IHGG IHGG	.1 .1 .1 .1	mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA	Res .1 1 1	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA	.1 Res .1 1
60IN 60IN 120IN 200IN	ihga‡ ihgg ihgg ihga ihga	.1 .1 .1 .1 .1 .1	mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARVAC [‡] ±1000MBARG [‡]	Res .1 1 1	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA 1000GCMVAC [‡]	.1 Res .1 1 1 1
60IN 60IN 120IN 200IN -30V20 200IN	ihga‡ ihgg ihgg ihga ihga doinhgg‡ ihgg	.1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARVAC* ±1000MBARG* 1000MBARG	Res .1 1 1 1 1 1	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMVAC [‡] ±1000GCMG [‡]	.1 Res .1 1 1 1 1
60IN 60IN 120IN 200IN -30V20 200IN -30V40	IHGA‡ IHGG IHGG IHGA DOINHGG‡ IHGG DOINHGG‡	.1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARVAC* ±1000MBARG* 1000MBARG 2000MBARA*	Res .1 1 1 1 1 1 1 1	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG [‡] 2000GCMA [‡]	.1 Res .1 1 1 1 1 1 1 1
60IN 60IN 120IN 200IN -30V20 200IN -30V40 400IN	ihga‡ ihgg ihgg ihga ihga ihgg ihgg ihgg ihgg	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 2000MBARG 2000MBARA* 2000MBARG	Res .1 1 1 1 1 1 1 1 1	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG 2000GCMA [‡] 2000GCMG	.1 Res .1 1 1 1 1 1 1 1 1
60IN 60IN 120IN 200IN -30V20 200IN -30V40	ihga‡ ihgg ihgg ihga ihga ihgg ihgg ihgg ihgg	.1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARVAC* ±1000MBARG* 1000MBARG 2000MBARA*	Res .1 1 1 1 1 1 1 1	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG [‡] 2000GCMA [‡]	.1 Res .1 1 1 1 1 1 1 1 1
60IN 60IN 120IN 200IN -30V20 200IN -30V40 400IN	IHGA‡ IHGG IHGA DOINHGG‡ IHGG DOINHGG‡ IHGG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 2000MBARG 2000MBARA* 2000MBARG	Res .1 1 1 1 1 1 1 1 1	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG 2000GCMA [‡] 2000GCMG	.1 Rec .1 1 1 1 1 1 1 Rec
60IN 60IN 120IN 200IN -30V20 200IN -30V40 400IN 600IN	HGA [‡] HGG HGG HGA DOINHGG [‡] HGG DOINHGG [‡] HGG HGG NHGG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARVAC* ±1000MBARG* 1000MBARG 2000MBARA* 2000MBARG bar	Res .1 1 1 1 1 1 1 1 1 Res	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG [‡] 2000GCMA [‡] 2000GCMA kg/cm ²	.1 Res .1 1 1 1 1 1 1 Res .00
60IN 60IN 200IN -30V20 200IN -30V40 400IN 600IN 1000II 2000II	IHGA [‡] IHGG IHGA IHGA DOINHGG [‡] IHGG IHGG IHGG NHGG NHGG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARVAC* ±1000MBARG* 1000MBARG 2000MBARA* 2000MBARG bar 1BARA 1BARVAC*	Res .1 1 1 1 1 1 1 1 1 1 1 1 8 Res .001 .001	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMVAC [‡] ±1000GCMG [‡] 1000GCMG 2000GCMA [‡] 2000GCMG kg/cm ² 1KGCMA 1KGCMVAC [‡]	.1 Res .1 1 1 1 1 1 1 1 8 8 8 00 .00
60IN 60IN 200IN -30V20 200IN -30V40 400IN 600IN 1000II 2000II 2000II	IHGA‡ IHGG IHGA DOINHGG‡ IHGG DOINHGG‡ IHGG IHGG NHGG NHGG NHGG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 2000MBARG 2000MBARG 2000MBARG bar 1BARA 1BARA 1BARG*	Res .1 1 1 1 1 1 1 1 1 1 1 8 Res .001 .001	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMVAC [‡] ±1000GCMG [‡] 1000GCMG 2000GCMG kg/cm ² 1KGCMA 1KGCMVAC [‡] ±1KGCMG [‡]	.1 Res .1 1 1 1 1 1 1 1 8 8 9 00 .00
60IN 60IN 120IN 200IN -30V20 200IN -30V40 400IN 600IN 1000II 2000II a 1A	HGA [‡] IHGG IHGG IHGA 2001NHGG [‡] IHGG 2001NHGG [‡] IHGG IHGG NHGG NHGG NHGG TMA	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 1000MBARG* 2000MBARG* 2000MBARG 2000MBARG* 1000MBARG* 1000MBARG* 1000MBARG* 1000MBARG* 2000MBARA* 2000MBARG* bar 1BARA 1BARA* 1BARG* 1BARG	Res .1 1 1 1 1 1 1 1 1 1 1 1 8 Res .001 .001 .001	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG 2000GCMG kg/cm ² 1KGCMA 1KGCMVAC [‡] ±1KGCMG [‡]	.1 Rec .1 1 1 1 1 1 1 1 1 1 8 8 00 .00 .00 .00
60IN 60IN 120IN 200IN -30V20 200IN -30V40 400IN 600IN 1000II 2000II a 1A	IHGA‡ IHGG IHGA DOINHGG‡ IHGG DOINHGG‡ IHGG IHGG NHGG NHGG NHGG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 2000MBARG 2000MBARG 2000MBARG bar 1BARA 1BARA 1BARG*	Res .1 1 1 1 1 1 1 1 1 1 1 8 Res .001 .001	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMVAC [‡] ±1000GCMG [‡] 1000GCMG 2000GCMG kg/cm ² 1KGCMA 1KGCMVAC [‡] ±1KGCMG [‡]	.1 Rec .1 1 1 1 1 1 1 1 1 1 8 8 00 .00 .00 .00
60IN 60IN 120IN 200IN -30V20 200IN -30V40 400IN 600IN 1000II 2000II a 1A 1A	HGA [‡] IHGG IHGG IHGA 2001NHGG [‡] IHGG 2001NHGG [‡] IHGG IHGG NHGG NHGG NHGG TMA	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 1000MBARG* 2000MBARG* 2000MBARG 2000MBARG* 1000MBARG* 1000MBARG* 1000MBARG* 1000MBARG* 2000MBARA* 2000MBARG* bar 1BARA 1BARA* 1BARG* 1BARG	Res .1 1 1 1 1 1 1 1 1 1 1 1 8 Res .001 .001 .001	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG 2000GCMG kg/cm ² 1KGCMA 1KGCMVAC [‡] ±1KGCMG [‡]	.1 Res .1 1 1 1 1 1 1 1 1 .00 .00 .00 .00
601N 601N 1201N 2001N -30V20 2001N -30V40 4001N 6001N 100011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 200111 2001120011 200111 200111 200111 200111 2001110	HGA [‡] IHGG IHGG IHGA 201NHGG [‡] IHGG IHGG IHGG NHGG NHGG NHGG TMA TMA	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 2000MBARG* 2000MBARG 2000MBARG bar 1BARA 1BARA 1BARG* 1BARG* 2000BARG*	Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG 2000GCMG 2000GCMA [‡] 2000GCMG kg/cm ² 1KGCMA 1KGCMVAC [‡] ±1KGCMG [‡] 1KGCMG	.1 Res .1 1 1 1 1 1 1 1 1 .00 .00 .00 .00 .00
60IN 60IN 200IN -30V2C 200IN -30V4C 400IN 600IN 1000II 2000II a 1A ±1A 1A 2A	HGA [‡] HGG HGG DOINHGG [‡] HGG DOINHGG [‡] HGG HGG NHGG NHGG TMG [‡] TMG TMA [‡]	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 1000MBARG* 2000MBARG* 2000MBARG* 2000MBARG* 1000MBARG 2000MBARG* 1000MBARG 2000MBARG* 1000MBARG* 1000MBARG* 2000MBARG* 1BARA 1BARA 1BARG* 1BARG 2BARA* 2BARG 4BARG	Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG 2000GCMG 2000GCMG kg/cm ² 1KGCMA 1KGCMAA 1KGCMVAC [‡] ±1KGCMG 2KGCMA [‡] 2KGCMG 4KGCMG	.1 Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 00 .00
60IN 60IN 120IN 200IN -30V2C 200IN -30V4C 400IN 600IN 1000II 2000II 1000II 1000II 1000II 1000II 1000II 1000II 1000II 1000II 2000II 1000II 2000II 1000II 2000II 1000II 2000II 1000II 2000II 1000II 2000II 1000II 2000II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 2	HGA [‡] HGG HGG DOINHGG [‡] HGG DOINHGG [‡] HGG HGG NHGG NHGG NHGG TMA TMA TMG [‡] TMG TMA [‡]	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 1000MBARG* 2000MBARG* 2000MBARG* 2000MBARG* 2000MBARG* 1000MBARG 2000MBARA* 2000MBARG* 1BARA 1BARA 1BARG* 1BARG 2BARA* 2BARG 4BARG 7BARA	Res .1 1 1 1 1 1 1 1 1 8 8 8 .001 .001 .001	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG 2000GCMG 2000GCMG ±000GCMG kg/cm ² 1KGCMA 1KGCMVAC [‡] ±1KGCMG ±1KGCMG 2KGCMA [‡] 2KGCMG 4KGCMG	.1 Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
60IN 60IN 120IN 200IN -30V2C 200IN -30V4C 400IN 600IN 1000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200	HGA [‡] HGG HGG DOINHGG [‡] HGG DOINHGG [‡] HGG HGG NHGG NHGG NHGG TMA TMA TMG TMA [‡] TMG TMG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 1000MBARG* 2000MBARG* 2000MBARG* 2000MBARG* 1000MBARG* 2000MBARG* 2000MBARG* 1BARA 1BARA 1BARA 1BARG* 1BARG 2BARA* 2BARG 4BARG 7BARA 7BARA	Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG 2000GCMG 2000GCMG 2000GCMG 2000GCMG 2000GCMG 2000GCMG 1000GCMG 1000GCMG 1000GCMG 2000GCMA 1000GCMG 2000GCMA 1000GCMG 2000GCMA	.1 Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
60IN 60IN 120IN 200IN -30V2C 200IN -30V4C 400IN 600IN 1000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200	HGA [‡] HGG HGG DOINHGG [‡] HGG DOINHGG [‡] HGG HGG NHGG NHGG NHGG TMA TMA TMG [‡] TMG TMA [‡]	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 1000MBARG* 2000MBARG* 2000MBARG* 2000MBARG* 2000MBARG* 1000MBARG 2000MBARA* 2000MBARG* 1BARA 1BARA 1BARG* 1BARG 2BARA* 2BARG 4BARG 7BARA	Res .1 1 1 1 1 1 1 1 1 8 8 8 .001 .001 .001	g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG 2000GCMG 2000GCMG ±000GCMG kg/cm ² 1KGCMA 1KGCMVAC [‡] ±1KGCMG ±1KGCMG 2KGCMA [‡] 2KGCMG 4KGCMG	.1 Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
60IN 60IN 200IN -30V2C 200IN -30V4C 400IN 600IN 1000II 2000II a 1A ±1A 1A 2A 2A 2A 4A 4A 7A	HGA [‡] HGG HGG DOINHGG [‡] HGG DOINHGG [‡] HGG HGG NHGG NHGG NHGG TMA TMA TMG TMA [‡] TMG TMG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 1000MBARG* 2000MBARG* 2000MBARG* 2000MBARG* 1000MBARG* 2000MBARG* 2000MBARG* 1BARA 1BARA 1BARA 1BARG* 1BARG 2BARA* 2BARG 4BARG 7BARA 7BARA	Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG 2000GCMG 2000GCMG 2000GCMG 2000GCMG 2000GCMG 2000GCMG 1000GCMG 1000GCMG 1000GCMG 2000GCMA 1000GCMG 2000GCMA 1000GCMG 2000GCMA	.1 Res 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
60IN 60IN 120IN 200IN -30V20 200IN -30V40 400IN 600IN 1000III 2000III 2000III 2000III 2000III 2001 407 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2	HGA [‡] HGG HGG DOINHGG [‡] HGG DOINHGG [‡] HGG HGG NHGG NHGG NHGG TMA TMG TMA TMG TMA [‡] TMG TMA TMG TMA	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG* 350MBARG* 1000MBARA 1000MBARG* 1000MBARG* 1000MBARG* 2000MBARG* 2000MBARG* 2000MBARG* 2000MBARG* 2000MBARG* 1BARA 1BARA 1BARG* 2BARG* 2BARG 4BARG 7BARA 7BARG -1V7BARG* 14BARG	Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMVAC [‡] 1000GCMG 2000GCMG 2000GCMG 2000GCMA 2000GCMG 2000GCMG 2000GCMG 1000GCMG 1KGCMA 1KGCMG 2KGCMA 2KGCMG 2KGCMA 7KGCMG -1V7KGCMG [‡] 14KGCMG	.1 Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
601N 601N 120N 200N -30V2C 200N 600N 1000N 2000N 1000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 2000N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N 200N	HGA [‡] HGG HGG DOINHGG [‡] HGG DOINHGG [‡] HGG NHGG NHGG NHGG NHGG TMA TMG TMA TMG TMA TMG TMA TMG TMA TMG TMA	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG‡ 350MBARG‡ 1000MBARA 1000MBARG‡ 1000MBARG‡ 1000MBARG‡ 2000MBARG‡ 2000MBARG‡ 2000MBARG‡ 2000MBARG‡ 1000MBARG 2000MBARG‡ 1BARA 1BARA 1BARA 1BARG‡ 1BARG‡ 2BARA‡ 2BARG 4BARG 7BARA 7BARG‡ 14BARG‡ 14BARG‡	Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMVAC [‡] 1000GCMG 2000GCMG 2000GCMG 2000GCMG 2000GCMG 2000GCMG 2000GCMG 1000GCMG 1000GCMG ±1KGCMG 2KGCMA 2KGCMG 2KGCMA 7KGCMG -1V7KGCMG [‡] 14KGCMG -1V14KGCMG [‡]	.1 Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
60IN 60IN 200IN -30V2C 200IN -30V4C 400IN 600IN 1000II 2000II 1000II 2000II 1000II 2000II 1000II 2000II 1000II 2000II 1000II 2000II 1000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 200	HGA [‡] HGG HGG DOINHGG [‡] HGG DOINHGG [‡] HGG NHGG NHGG NHGG NHGG TMA TMG TMA TMG TMA TMG TMA TMG TMA TMG TMG TMG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARG [‡] 1000MBARG 2000MBARA [‡] 2000MBARA [‡] 2000MBARG bar 1BARA 1BARA 1BARG [‡] 2BARA [‡] 2BARA 7BARG -1V7BARG [‡] 14BARG -1V14BARG [‡] 20BARG	Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMVAC [‡] 1000GCMG 2000GCMG [‡] 2000GCMG 2000GCMG 2000GCMG 2000GCMG 1000GCMG 1KGCMA 1KGCMG 2KGCMG 2KGCMA 7KGCMG -1V7KGCMG [‡] 14KGCMG -1V14KGCMG [‡] 20KGCMG	.1 Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
60IN 60IN 200IN -30V2C 200IN -30V4C 400IN 600IN 1000II 2000II 1000II 2000II 1000II 2000II 1000II 2000II 1000II 2000II 1000II 2000II 1000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 2000II 200	HGA [‡] HGG HGG DOINHGG [‡] HGG DOINHGG [‡] HGG NHGG NHGG NHGG NHGG TMA TMG TMA TMG TMA TMG TMA TMG TMA TMG TMA	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG‡ 350MBARG‡ 1000MBARA 1000MBARG‡ 1000MBARG‡ 1000MBARG‡ 2000MBARG‡ 2000MBARG‡ 2000MBARG‡ 2000MBARG‡ 1000MBARG 2000MBARG‡ 1BARA 1BARA 1BARA 1BARG‡ 1BARG‡ 2BARA‡ 2BARG 4BARG 7BARA 7BARG‡ 14BARG‡ 14BARG‡	Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMVAC [‡] 1000GCMG 2000GCMG 2000GCMG 2000GCMG 2000GCMG 2000GCMG 2000GCMG 1000GCMG 1000GCMG ±1KGCMG 2KGCMA 2KGCMG 2KGCMA 7KGCMG -1V7KGCMG [‡] 14KGCMG -1V14KGCMG [‡]	.1 Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
601N 601N 2001N -30V2C 2001N -30V4C 4001N 6001N 100011 200011 200011 200011 200011 200011 200011 200011 200011 20001 200011 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 200000 20000 200000 200000 200000 200000 2000000	HGA [‡] HGG HGG DOINHGG [‡] HGG DOINHGG [‡] HGG NHGG NHGG NHGG NHGG TMA TMG TMA TMG TMA TMG TMA TMG TMA TMG TMG TMG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARG [‡] 1000MBARG 2000MBARA [‡] 2000MBARA [‡] 2000MBARG bar 1BARA 1BARA 1BARG [‡] 2BARA [‡] 2BARA 7BARG -1V7BARG [‡] 14BARG -1V14BARG [‡] 20BARG	Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMVAC [‡] 1000GCMG 2000GCMG [‡] 2000GCMG 2000GCMG 2000GCMG 2000GCMG 1000GCMG 1KGCMA 1KGCMG 2KGCMG 2KGCMA 7KGCMG -1V7KGCMG [‡] 14KGCMG -1V14KGCMG [‡] 20KGCMG	.1 Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
601N 601N 2001N -30V2C 2001N -30V4C 4001N 6001N 100011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 20001 2000100000000	HGA [‡] HGG HGG DOINHGG [‡] HGG DOINHGG [‡] HGG HGG NHGG NHGG NHGG TMA TMG TMA TMG TMA TMG TMG TMG TMG TMG TMG TMG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .0 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARG 2000MBARG 1BARA 1BARVAC [‡] 1BARG 1BARG 2BARA [‡] 2BARG 2BARA [‡] 2BARG -1V7BARG [‡] 14BARG -1V7BARG [‡] 20BARG 35BARG [‡] 70BARG	Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 .001 .001 .001 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	9/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMVAC [‡] 1000GCMG [‡] 2000GCMG [‡] 2000GCMG 2000GCMG 2000GCMG 2000GCMG 1000GCMG 1000GCMG ±1KGCMG 2KGCMA 1KGCMG 2KGCMG 2KGCMG 14KGCMG -1V7KGCMG [‡] 14KGCMG 20KGCMG 35KGCMG [‡] 70KGCMG	.1 Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
601N 601N 2001N -30V2C 2001N -30V4C 4001N 6001N 100011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200011 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 200010 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 200000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 20000 2000000	HGA [‡] HGG HGG HGG DOINHGG [‡] HGG HGG NHGG HGG NHGG TMG TMA TMG TMG TMA [‡] TMG TMG TMA TMG TMG TMG TMG TMG TMG TMG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .001 .001 .001 .001 .001 .01	mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG 2000MBARG 2000MBARG 2000MBARG 2000MBARG 2000MBARG 100MBARG 1BARG 1BARG 1BARG 2BARG [‡] 2BARG 4BARG 7BARA 7BARA 7BARG -1V7BARG [‡] 14BARG [‡] 20BARG 140BARG	Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 .001 .001 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .1 .1	g/cm² 200GCMG‡ 350GCMG‡ 1000GCMA 1000GCMG4 1000GCMG4 2000GCMG4 200GCMG4 2KGCMG5 2KGCMG6 7KGCMG6 -1V7KGCMG4 14KGCMG6 20KGCMG6 35KGCMG4 70KGCMG 140KGCMG6	.1 Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 .00 .00
60IN 60IN 200IN -30V20 200IN -30V40 400IN 600IN 1000III 2000III 2000III 2000III 2000III 2000II 2000II 2000II 2000I 2000I 2000I 2000I 2000I 2000I 2000I 2000I 2000I 2000I 2000I 2000I 2000I 2000I 2000I 2000I 2000I 2000I 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200III 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200II 200	HGA [‡] HGG HGG HGG DOINHGG [‡] HGG HGG NHGG HGG NHGG TMG TMA TMG TMG TMA [‡] TMG TMG TMA TMG TMG TMG TMG TMG TMG TMG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .0 .0 1 .0 01 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARG 2000MBARG 1BARA 1BARVAC [‡] 1BARG 1BARG 2BARA [‡] 2BARG 2BARA [‡] 2BARG -1V7BARG [‡] 14BARG -1V7BARG [‡] 20BARG 35BARG [‡] 70BARG	Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 .001 .001 .001 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01 .01	9/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMVAC [‡] 1000GCMG [‡] 2000GCMG [‡] 2000GCMG 2000GCMG 2000GCMG 2000GCMG 1000GCMG 1000GCMG ±1KGCMG 2KGCMA 1KGCMG 2KGCMG 2KGCMG 14KGCMG -1V7KGCMG [‡] 14KGCMG 20KGCMG 35KGCMG [‡] 70KGCMG	.1 Res .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Accuracy

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

Quick Link: cecomp.com/ad

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 backlight on whenever gauge is on Controls Ranges to 2000: Front button turns gauge on/off Front button turns gauge on/off, Ranges >2000: hold at power up to zero display (gauge reference only) Power 8 to 24 VAC 50/60 Hz or 9 to 32 VDC Approx 5 mA AD ADBL: Approx 80 mA 3 ft long, 2-conductor 22 AWG cable All models are designed for continuous operation Use WMPSK 12 VDC power supply kit to operate on 115 VAC Calibration Ranges to 2000: Front calibration potentiometers, non-interactive zero and span, $\pm 10\%$ range

Ranges >2000: Internal calibration buttons, non-interactive zero, span, and linearity, ±10% of range

Housing

DPG1000AD: Extruded aluminum case, epoxy powder coated, ABS/ polycarbonate bezel (aluminum bezel optional), front and rear gaskets, polycarbonate label, NEMA 2

F4AD: UV stabilized ABS/polycarbonate case, polycarbonate display window, polycarbonate front label, rear gasket, six stainless steel cover screws. NEMA 4X, not intended for permanent outdoor installations.

Weight

Approximately 9.5 ounces Shipping weight 1 pound

Connection and Material

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

Overpressure and Burst

3000 psig sensor range: 5000 psig 5000 psig sensor range: 7500 psig All others: 2 X pressure range 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

-40 to 203°F (-40 to 95°C)

32 to 158°F (0 to 70°C)

3.5 digit

models

0.75

1/4" NPT

3.38

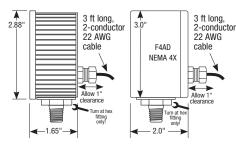
Environmental Temperatures

Storage temperature: Operating (3.5 digit versions): -40 to 185°F (-40 to 85°C) Operating (4 digit versions): -4 to 185°F (-20 to 85°C) Sensor compensated range:

3.5 digit models with standard housing use plastic caps on potentiometers. F4 covers are nylon screws with

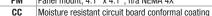
o-rings. 4 digit models use internal buttons Non-metallic system installations require connecting gauge sensor to earth ground to avoid static electricity damage to gauge. Attach ground wire using a ring terminal and a #2 x 1/4" long sheet metal screw driven







DPG1000AD, F4AD



Calibration Cert. Option—add to end of model number NC NIST traceability documentation, 5 points and date

Accessories—order separately

WMPSK Wall mount power supply kit, 115 VAC/12 VDC

SCR14SS

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



CECOMP Div. of ABSOLUTE PROCESS INSTRUMENTS

1220 American Way Libertyville, IL 60048 800-942-0315

Instructions

Precautions

- ✔ Read and understand all instruction sheet information. Contact us for help, instructions, or repairs.
- ✓ Use specified power only. Improper voltages will damage the gauge. NEVER connect the gauge power wires directly to an electrical outlet or permanent damage will result.
- ✓ Gauges are not intended for permanent outdoor use. Protect from weather and excessive humidity. NEMA 4X models are suitable for temporary outdoor use and wash down areas.
- \checkmark Install gauge so it is protected from impact damage.
- Media temperature and gauge ambient temperature must be within specified ranges.
- Use a screen or filter to avoid clogging gauge port when measuring contaminated media.
- ✓ Use thread sealant to ensure leak-free operation.
- ✓ Media being measured must be compatible with 316L SS.
- Avoid sensor damage! Sensor diaphragm is thin 316L SS foil. Never insert objects into the gauge port or blow out with compressed air.
- Avoid sensor damage! Hydraulic or liquid pumping systems must include a shock suppressor to protect gauge sensor from damaging pressure spikes or water hammer.
- Avoid sensor damage! Do not apply vacuum to non-vacuum gauges or hydraulic vacuum to any gauge.
- ▲ Do not exceed pressure range indicated on gauge label.
- ▲ Remove system pressure before removing or installing gauge.
- ▲ Use fittings appropriate for the pressure range of the gauge.
- ▲ Gauges are not for oxygen service. Accidental rupture of sensor diaphragm may cause silicone oil inside sensor to react with oxygen.
- ▲ Only gauges marked as Intrinsically Safe can be used in hazardous locations or in the presence of flammable or explosive substances, or atmospheres.

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



WARNING: This product can expose you to chemicals including nickel which is known to the State of California to cause cancer or birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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 and are functionally similar to gauge reference models.

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

Power

The AD series is powered by 8-24 VAC 50/60 Hz or 9-32 VDC.

The supply voltage has negligible effect on the gauge calibration as long as it is within the stated voltage ranges. No polarity needs to be observed when connecting a power supply. An inexpensive unregulated low voltage AC or DC power supply can be used.

After the gauge is installed, route the wires away from heat sources and moving equipment and connect the low-voltage power source to the gauge wires.

Ensure that the gauge supply voltage does not fall below 8 VAC_{RMS} if AC power is used, or 9 VDC if DC power is used. Operation with less than these values may cause erratic or erroneous readings.

When operating multiple gauges from the same power supply, refer to the mA rating in the specifications to ensure adequate power.

Note that standard 24 VAC transformers often operate at voltages well over the gauge's 24 VAC limit.

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. If the gauge is in the power-on state and the power is disconnected, the gauge will turn on when power is reapplied.

The display indicates the pressure reading updated approximately 3 times per second. The gauge can be left on continuously or turned off when not in use.

Display backlighting for BL models is on whenever the gauge is on. The backlighting will not be apparent under bright lighting conditions.

Operation, 4 Digit Models

Press and hold the front button for approximately 1 second if the gauge does not turn on when power is applied.

When the supply voltage is applied, the gauge will go through a power-up sequence. The full-scale range is indicated, display segments are tested, and then the reading and units are displayed.

The gauge may be zeroed at power-up by following the procedure below. This feature corrects small deviations from zero due to temperature changes. Absolute reference gauges do not use the zero feature since they normally read atmospheric pressure.

The gauge port must be 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 ErrD 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.

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 is on whenever the gauge is on. The 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.

Calibration Preparation

ousing! Use a

wrench

on hex fitting to install or

remove.

Gauges are factory calibrated at approximately 23°C using NIST traceable calibration equipment. Calibration is not required before using the gauge. Calibration intervals depend on your quality standards, but annual re-calibration is customary. Calibration should only be performed by qualified individuals using appropriate calibration standards and procedures.

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.

Connect gauge to a 8-24 VAC 50/60 Hz or 9-32 VDC power supply. Allow the gauge to equalize to normal room temperature for approximately 20 minutes before calibration.

Calibration, 3.5 Digit Models

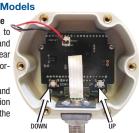
Remove the front covers to access the zero and span calibration potentiometers. For F4AD models remove the nylon cover screws first. Gauges may be re-zeroed without affecting the span calibration. For gauge reference models the gauge port must be open to the ambient. For absolute reference models full 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.



Calibration, 4 Digit Models - continued

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

DPG1000AD, F4AD

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 power is removed during calibration, settings will not be saved.

The display will indicate the current pressure reading, updating approximately 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. Adjust the gauge's display 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.

Note: At this point you may re-zero the gauge without doing any other calibration. Press and hold the Power button until the display indicates - - - - then release the button to store the new zero in non-volatile memory and restart the gauge.

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 (±) Ranges using a 15 psig sensor (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.

Apply 50% of the full-scale vacuum range (for example, -7.4 psi for a ± 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.

Compound Ranges (4 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.

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 wires between the case and the rear cover.

CECOMP Div. of ABSOLUTE PROCESS INSTRUMENTS

1220 American Way Libertyville, IL 60048 cecomp.com