Cecomp[®] 2-Wire Loop Powered Digital Pressure Transmitters

Ranges and Resolution

See table below. Consult factory for special engineering units. Resolution is fixed as indicated in table. For DPG1000L and F4L series

+ -HA option not available

PSI	‡ -HA option not available								
	Res	inHg/PSI	Res	mmH₂O	Res				
3PSIG [‡]	.001	–30V15PSIG‡	.1	2100MMH20G [‡]					
5PSIG [‡]	.001	-30V100PSIG [‡]	.1	3500MMH20G [‡]	1				
15PSIA	.01	-30V200PSIG [‡]	.1	cmH₂O	Res				
15PSIVAC [‡]	.01	inH₂O	Res	210CMH20G [‡]	.1				
±15PSIG [‡]	.01	85INH20G [‡]	.01	350CMH20G [‡]	.1				
15PSIG	.01	140INH20G [‡]	.1	1000CMH20A	1				
30PSIA	.01	400INH20A	.1	1000CMH20VAC*	1				
30PSIG	.01	400INH20VAC [‡]	.1	±1000CMH20G [‡]	1				
60PSIG	.01	±400INH20G [‡]	1	1000CMH20G	1				
100PSIA	.1	400INH20G	.1	2100CMH20A	1				
-15V100PSIG [‡]	.1	850INH20A	1	2100CMH20G	1				
100PSIG	.1	850INH20G	1	kPa	Res				
-15V200PSIG [‡]	.1	ftH₂O	Res	20KPAG [‡]	.01				
200PSIG	.1	7FTH20 [‡]	.001	35KPAG*	.1				
300PSIG	.1	12FTH20*	.01	100KPAA	.1				
500PSIG	.1	35FTH20	.1	100KPAVAC [‡]	.1				
1000PSIG	1	70FTH20	.1	±100KPAG [‡]	.1				
2000PSIG	1	140FTH20	.1	100KPAG	.1				
	1	230FTH20		200KPAA	<u> </u>				
3000PSIG			.1		.1				
5000PSIG	1	480FTH20	.1	200KPAG	.1				
oz/in ²	Res	700FTH20	.1	400KPAG	.1				
50ZING [‡]	.01	1150FTH20	1	700KPAA	.1				
80ZING [‡]	.1	2300FTH20	1	700KPAG	.1				
240ZINA	.1	4600FTH20	1	-100V700KPAG*	1				
240ZINVAC [‡]	.1	6900FTH20	1	1400KPAG	1				
±240ZING [‡]	.1	mmHg	Res	-100V1400KPAG [‡]	1				
240ZING	.1	150MMHGG [‡]	.1	2000KPAG	1				
480ZINA	.1	260MMHGG [‡]	.1	3500KPAG	1				
480ZING	.1	760MMHGA	.1	7000KPAG	1				
inHg	Res	760MMHGVAC [‡]	.1	MPa	Res				
6INHGG [‡]	.001	±760MMHGG [‡]	1	1.4MPAG	.001				
10INHGG [‡]	.01	760MMHGG	.1	-0.1V1.4MPAG [‡]	.001				
30INHGA	.01	1600MMHGA	1	2MPAG	.001				
30INHGVAC [‡]	.01	1600MMHGG	1	3.5MPAG	.001				
±30INHGG [‡]	.01	Torr	Res	7MPAG	.001				
30INHGG	.01	760TORRA	.1	14MPAG	.01				
60INHGA	.01	760TORRVAC [‡]	.1	20MPAG	.01				
60INHGG	.01	1600TORRA	1	35MPAG	.01				
					.01				
120INHGG		mbar		a/cm²					
	.1	mbar 200MBARG [‡]	Res	g/cm ² 200GCMG [‡]	Res				
120INHGG 200INHGA –30V200INHGG [‡]	.1 .1	200MBARG [‡]	Res .1	200GCMG [‡]	Res .1				
200INHGA –30V200INHGG‡	.1 .1 .1	200MBARG [‡] 350MBARG [‡]	Res .1 .1	200GCMG [‡] 350GCMG [‡]	Res .1 .1				
200INHGA -30V200INHGG‡ 200INHGG	.1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA	Res .1 .1 1	200GCMG [‡] 350GCMG [‡] 1000GCMA	Res .1 .1 1				
200INHGA -30V200INHGG‡ 200INHGG -30V400INHGG‡	.1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARVAC [‡]	Res .1 .1 1	200GCMG [‡] 350GCMG [‡] 1000GCMA 1000GCMVAC [‡]	Res .1 .1 1				
200INHGA -30V200INHGG‡ 200INHGG -30V400INHGG‡ 400INHGG	.1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARVAC [‡] ±1000MBARG [‡]	Res .1 .1 1 1	200GCMG [‡] 350GCMG [‡] 1000GCMA 1000GCMVAC [‡] ±1000GCMG [‡]	Res .1 .1 1 1				
200INHGA -30V200INHGG [‡] 200INHGG -30V400INHGG [‡] 400INHGG 600INHGG	.1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARVAC [‡] ±1000MBARG [‡] 1000MBARG	Res .1 .1 1 1 1	200GCMG [‡] 350GCMG [‡] 1000GCMA 1000GCMVAC [‡] ±1000GCMG [‡] 1000GCMG	Res .1 .1 1 1 1				
200INHGA -30V200INHGG [‡] 200INHGG -30V400INHGG [‡] 400INHGG 600INHGG 1000INHGG	.1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARVAC [‡] ±1000MBARG [‡] 1000MBARG 2000MBARA	Res .1 .1 1 1 1 1 1	200GCMG [‡] 350GCMG [‡] 1000GCMA 1000GCMVAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMA	Res .1 .1 1 1 1 1 1				
2001NHGA -30V2001NHGG [‡] 2001NHGG -30V4001NHGG [‡] 4001NHGG 6001NHGG 10001NHGG 20001NHGG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARVAC [‡] ±1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARG	Res .1 .1 1 1 1 1 1 1 1	200GCMG [‡] 350GCMG [‡] 1000GCMA 1000GCMVAC [‡] ±1000GCMG [‡] 2100GCMA 2100GCMA	Res .1 .1 1 1 1 1 1 1				
2001NHGA -30V2001NHGG [‡] 2001NHGG -30V4001NHGG [‡] 4001NHGG 6001NHGG 10001NHGG 20001NHGG 40001NHGG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARVAC [‡] ±1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARG bar	Res .1 .1 1 .1 .1 .1 .1 .1	200GCMG [‡] 350GCMG [‡] 1000GCMA 1000GCMVAC [‡] ±1000GCMG [‡] 2100GCMA 2100GCMA kg/cm ²	Res .1 .1 1 1 1 1 1 .1 .1 .1 .1 .1 .1 .1 .1				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG 4000INHGG atm	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARG bar 1BARA	Res .1 .1 1 1 1 1 1 .001	200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG [‡] 1000GCMG 2100GCMA 2100GCMA kg/cm ² 1KGCMA	Res .1 .1 1 1 1 1 .001				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG 4000INHGG atm 1ATMA	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARVAC [‡]	Res .1 .1 1 1 1 1 1 .001 .001	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMA 2100GCMG kg/cm ² 1KGCMA 1KGCMVAC [‡]	Res .1 .1 1 1 1 1 1 1 8 Res .001 .001				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG 2000INHGG atm 1ATMA 1ATMVAC [‡]	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARVAC [‡] ±1BARG [‡]	Res .1 .1 1 1 1 1 1 1 .001 .001	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMG 2100GCMG kg/cm ² 1KGCMA 1KGCMVAC [‡] ±1KGCMG [‡]	Res .1 .1 1 1 1 1 1 1 8 Res .001 .001				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG 2000INHGG atm 1ATMA 1ATMAC [‡]	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARA 2000MBARG bar 1BARA 1BARVAC [‡] ±1BARG [‡]	Res .1 .1 .1 .1 .1 .1 .1 .0 .0 .0 .001 .001 .001	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMG 2100GCMG kg/cm ² 1KGCMA 1KGCMVAC [‡] ±1KGCMG [‡] 1KGCMG	Res .1 .1 1 1 1 1 1 1 1 8 Res .001 .001 .001				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 21ATMA 1ATMAC [‡] 1ATMG [‡]	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARA 2000MBARG bar 1BARA 1BARVAC [‡] ±1BARG [‡] 1BARG 2BARA	Res .1 .1 .1 .1 .1 .1 .1 .0 .0 .0 1 .001 .001 .001	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMG 2100GCMG kg/cm ² 1KGCMA 1KGCMAC [‡] ±1KGCMG [‡] 1KGCMG	Res .1 .1 1 1 1 1 1 1 1 .001 .001 .001				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 210TH 14TMA 14TMAC [‡] 14TMG 24TMA	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARVAC [‡] ±1BARG [‡] 1BARG 2BARA 2BARG	Res .1 .1 .1 .1 .1 .1 .1 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMG 2100GCMG 2100GCMG 100GCMG ±1KGCMA 1KGCMAA ±1KGCMG [‡] 1KGCMG 2KGCMA	Res .1 .1 1 1 1 1 1 1 1 1 8 (001 .001 .001 .001				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 210TH 14TMA 14TMAC [‡] 14TMG 24TMA 24TMG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARG bar 1BARA 1BARVAC [‡] ±1BARG [‡] 1BARG 2BARA	Res .1 .1 .1 .1 .1 .1 .1 .0 .0 .0 1 .001 .001 .001	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMG 2100GCMG 2100GCMG 100GCMG ±1KGCMA 1KGCMAA ±1KGCMG [‡] 1KGCMG 2KGCMA 2KGCMG 4KGCMG	Res .1 .1 1 1 1 1 1 1 1 1 8 es .00 ⁻ .00 ⁻ .00 ⁻ .00 ⁻				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 210TH 14TMA 14TMAC [‡] 14TMG 24TMA	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARVAC [‡] ±1BARG [‡] 1BARG 2BARA 2BARG	Res .1 .1 .1 .1 .1 .1 .1 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMG 2100GCMG 2100GCMG 100GCMG ±1KGCMA 1KGCMAA ±1KGCMG [‡] 1KGCMG 2KGCMA	Res .1 .1 1 1 1 1 1 1 1 1 1 1 1 1 1				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 210TH 14TMA 14TMAC [‡] 14TMG 24TMA 24TMG	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARG ±1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARG bar 1BARA 1BARVAC [‡] ±1BARG [‡] 1BARG 2BARA 2BARG 4BARG	Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .0 .0 1 .001 .001 .001 .001 .001	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMG 2100GCMG 2100GCMG 100GCMG ±1KGCMA 1KGCMAA ±1KGCMG [‡] 1KGCMG 2KGCMA 2KGCMG 4KGCMG	Ress .1 .1 1 1 1 1 1 1 1 1 1 8 (001 .001 .001 .001 .001 .001				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGA 2000INHA 2000INHA	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARG [‡] 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARG bar 1BARA 1BARVAC [‡] 1BARG [‡] 1BARG 2BARA 2BARG 4BARG 7BARA	Res .1 .1 1 <th>200GCMG[‡] 350GCMG[‡] 1000GCMAC[‡] ±1000GCMG[‡] 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG ±1KGCMA 1KGCMAA 1KGCMG4 ±1KGCMG 2KGCMA 2KGCMG 4KGCMG</th> <th>Res .1 .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th>	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG ±1KGCMA 1KGCMAA 1KGCMG4 ±1KGCMG 2KGCMA 2KGCMG 4KGCMG	Res .1 .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGA 2000INHA 20	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARG ±1000MBARG [‡] 1000MBARG [‡] 2000MBARG 2000MBARG 2000MBARG bar 1BARA 1BARVAC [‡] ±1BARG [‡] 1BARG 2BARA 2BARG 4BARG 7BARA 7BARG	Res .1 .1 1 <th>200GCMG[‡] 350GCMG[‡] 1000GCMAC[‡] ±1000GCMG[‡] 2100GCMG 2100GCMG 2100GCMG 2100GCMA 2100GCMG ±1KGCMA 1KGCMAA ±1KGCMG[‡] 1KGCMG 2KGCMA 2KGCMG 4KGCMG 7KGCMA</th> <th>Res .1 .1 .1 .1 .1 .1 .1 .1 .001 .001 .001</th>	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 2100GCMG 2100GCMG 2100GCMG 2100GCMA 2100GCMG ±1KGCMA 1KGCMAA ±1KGCMG [‡] 1KGCMG 2KGCMA 2KGCMG 4KGCMG 7KGCMA	Res .1 .1 .1 .1 .1 .1 .1 .1 .001 .001 .001				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGA 2000INHA 200	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARG ±1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARVAC [‡] ±1BARG [‡] 1BARG 2BARA 2BARG 4BARG 7BARA 7BARG -1V7BARG [‡]	Res .1 .1 1 <th>200GCMG[‡] 350GCMG[‡] 1000GCMAC[‡] ±1000GCMG[‡] 1000GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 100GCMG ±1KGCMG ±1KGCMG 2KGCMG 2KGCMA 2KGCMG 4KGCMG 7KGCMA</th> <th>Ress .1 .1 .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th>	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 100GCMG ±1KGCMG ±1KGCMG 2KGCMG 2KGCMA 2KGCMG 4KGCMG 7KGCMA	Ress .1 .1 .1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG 2000INHGG 4000INHGG 4000INHGG 2000INHGG 4400INHGG 1ATMA 1ATMA 1ATMVAC [‡] 1ATMG 2ATMA 2ATMG 4ATMG 7ATMA 7ATMG -1V7ATMG [‡]	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARA 2000MBARA 1BARG 1BARG 1BARG 2BARA 2BARG 2BARA 2BARG 4BARG 7BARA 7BARG -1V7BARG [‡] 14BARG	Res .1 .1 1 <th>200GCMG[‡] 350GCMG[‡] 1000GCMAC[‡] ±1000GCMG[‡] 1000GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 1KGCMG 1KGCMG 2KGCMA 2KGCMG 2KGCMA 2KGCMG 2KGCMA 2KGCMG 1VKGCMG[‡] 14KGCMG[‡]</th> <th>Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1</th>	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 1KGCMG 1KGCMG 2KGCMA 2KGCMG 2KGCMA 2KGCMG 2KGCMA 2KGCMG 1VKGCMG [‡] 14KGCMG [‡]	Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 600INHGG 1000INHGG 200INHGG 200INHGA 200INHA 200INHA	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARG ±1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARG 2000MBARA 2000MBARG 1BARG 1BARG 1BARG 2BARA 2BARG 2BARA 2BARG 4BARG 7BARA 7BARG -1V7BARG [‡]	Res .1 .1 1 1 1 1 1 1 1 1 1 1 1 001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 1KGCMG 1KGCMG 2KGCMA 2KGCMG 2KGCMA 2KGCMG 2KGCMA 2KGCMG 1VTKGCMG [‡] 14KGCMG -1V7KGCMG [‡]	Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .001 .001				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 600INHGG 1000INHGG 200INHGG 200INHGA 200INHA 200INHA 200INHGA 200INHGA 200INHA 200INHGA 200INHGA 200INHGA 200INHA	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARG ±1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARG 2000MBARA 2000MBARG 1BARG 1BARG 1BARG 2BARA 2BARG 2BARA 2BARG 4BARG 7BARA 7BARG -1V7BARG [‡] 14BARG 20BARG 35BARG	Res .1 .1 1	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 1KGCMG 2100GCMG 2KGCMG 2KGCMG 2KGCMG 35KGCMG 35KGCMG	Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 600INHGG 1000INHGG 200INHGG 200INHGA 200INHA 200INHA 200INHA 200INHA 200INHA 200INHA 200INHA 200INHA 200INHA 200INHA 2	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARG [‡] 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARA 2000MBARA 2000MBARA 1BARG 1BARG 1BARG [‡] 1BARG 2BARA 2BARG 2BARA 2BARG 4BARG 7BARA 7BARA 7BARG -1V7BARG [‡] 14BARG [‡] 20BARG 35BARG 70BARG	Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 210GCMG 210GCMG 210GCMG 210GCMG 14GCMG 24GCMG 24GCMG 24GCMG 24GCMG 24GCMG 24GCMG 77KGCMG 14KGCMG [‡] 14KGCMG [‡] 20KGCMG 35KGCMG	Res .1 .1 .1 .1 .1 .1 .1 .1 .01 .0				
200INHGA -30V200INHGG 200INHGG -30V400INHGG 600INHGG 1000INHGG 2000INHGA 2000INHA 2000INHA 2000INHA 2000INHA 2000INHA 2000INHA 2000INHA 2000INHA 2000INHA 2000INHA 2000INHA 2000INHA 2000INHA 2000INHA 2000INHA 2000INHA 20	.1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	200MBARG [‡] 350MBARG [‡] 1000MBARG ±1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARA 2000MBARA 2000MBARG 1BARG 1BARA 1BARG4 2BARA 2BARA 2BARA 2BARA 2BARA 2BARG 4BARG 7BARA 7BARA 7BARG -1V7BARG [‡] 14BARG 35BARG 35BARG 70BARG 140BARG	Res .1 .1 .1 .1 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 210GCMG 210GCMG 210GCMG 210GCMG 1KGCMG 1KGCMG 2KGCMG 2KGCMG 4KGCMG 4KGCMG 2KGCMG 7KGCMG 14KGCMG [‡] 20KGCMG 35KGCMG 35KGCMG 70KGCMG	Res .1 .1 .1 .1 .1 .1 .1 .1 .01 .0				
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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: $\pm 0.015\%$ FS, included in accuracy Sensor repeatability: ±0.01% FS, included in accuracy

Display

4 readings per second nominal display update rate 4 digit LCD, 0.5" H and 5 character 0.25" H alphanumeric

Controls and Functions

- TEST: When depressed sets loop current and display to user-set output test level, independent of pressure input, to allow testing of system operation.
 - Up: set test, pass code, and calibration values
- Down: set test, pass code, and calibration values

Calibration

User settable pass code required to enter calibration mode All pressure and absolute models: zero, midpoint, span All vacuum models: -span, -midpoint, zero

Vacuum/pressure models: -span, zero, +midpoint, +span ±15 psi models: -span, -midpoint, zero, +midpoint, +span

Loop Supply Voltage

Any DC supply/loop resistance that maintains 8-32 VDC at gauge terminals

Reverse polarity protected

Output Characteristics

Current output, 4-20 mA DC

Passive transmitter, requires external loop power Output drive (compliance) determined by power source Updated approximately 16 times per second

12,000 counts over sensor range

Weight

9 ounces (approx.), Shipping wt. 1 pound (approx.)

Housing

F16L: Extruded aluminum case, epoxy powder coated, ABS/ polycarbonate bezel (aluminum bezel optional), front and rear gaskets, polycarbonate label

F16LN: ABS/polycarbonate NEMA 4X case, rear gasket, polycarbonate label

Connection, Material, Media Compatibility 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

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

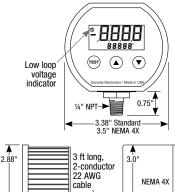
Under-range display (non-vacuum sensors): -Err

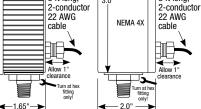
Environmental

Storage temperature: Operating temperature: Compensated temperature:

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

3 ft Iona.







F16L, F16LN

MADE IN USA

±0.25% Test Gauge Accuracy

4-20 mA Analog Output

Output Test Function

316L Stainless Steel Wetted Parts

CECOMP

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How to Specify Туре F16L range - options Standard housing F16LN range - options NEMA 4X housing Range-see table at left psi = PSI torr = TORR mbar = MBAR inHg = INHG $mmH_20 = MMH20$ bar = BAR $kg/cm^2 = KGCM$ $cmH_{2}O = CMH_{2}O$ $oz/in^2 = ZIN$ $inH_2O = INH2O$ $q/cm^2 = GCM$ atm = ATM $ftH_20 = FTH20$ kPa = KPA mmHg = MMHG



G = gauge reference pressure

VAC = gauge reference vacuum

A = absolute reference

Options—add to end of model number					
HA	High accuracy, $\pm 0.1\%$ FS ± 1 LSD. See table at left for availability.				
PM	Panel mount, 4.1" x 4.1", n/a NEMA 4X				
CC	Moisture resistant circuit board conformal coating				
CD	Calibration data; 5 test points and date				
NC	NIST traceability documentation, 5 points and date				

SCR14SS

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





Instructions

Installation Precautions

- Read these instructions before using the gauge. Configuration may be easier before installation. 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.
- X 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.
- A Gauges are not for oxygen service. Accidental rupture of sensor diaphragm may cause silicone oil inside sensor to react with oxvaen.
- NEVER connect the gauge wires directly to 115 VAC or permanent damage will result.

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

lead, nickel and chromium, which are 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

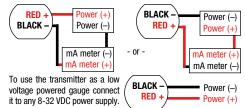
Electrical Connection

All operating power is supplied by the 4-20 mA current loop using the 2-wire cable at the gauge rear. The F16L can be used as an indicating transmitter in any 4-20 mA current loop or as a DC powered gauge. Reversing the connections will not harm the gauge but it will not operate with incorrect polarity.

Select a loop power supply voltage and total loop resistance so that when the loop current is 20 mA, the gauge will have at least 8 VDC at its terminals but not over 32 VDC

For correct operation and to avoid erratic or erroneous readings, the gauge terminal voltage must not fall below 8 VDC. Too large a loop resistance will cause the gauge output to "limit" or saturate before reaching its full 20 mA output. The minimum loop supply voltage may be calculated from the formula:

Vmin = 8V + (20mA x Total loop resistance)



Operation

The F16L is designed for continuous operation. Warm-up time is negligible. When power is first applied, the F16L will set the loop current to maximum and check the voltage available. If there is sufficient voltage available to power the unit, all active segments will be displayed briefly.

Then the full scale pressure range and engineering units are displayed. All active segments will again displayed briefly. Then the display will show the system pressure, and the loop current will be linearly proportional to the pressure/vacuum.

The output is a 12,000 count analog 4-20 mA signal. The output is filtered to improve noise immunity and is updated approximately 16 times per second.

Sensor Range	Full vacuum	"O" on display	Full pressure
Gauge reference pressure	n/a	4 mA	20 mA
Gauge reference vacuum	20 mA	4 mA	n/a
Compound –30inHg/15psi	4 mA	12 mA	20 mA
Compound –30inHg/100psi	4 mA	5.5 mA	20 mA
Compound –30inHg/200psi	4 mA	4.8 mA	20 mA
Absolute reference	4 mA	4 mA	20 mA
Bipolar ±	4 mA	12 mA	20 mA

Test Function

When the TEST button is held depressed, the display and loop current are switched, independent of the actual pressure, to a level determined by the test setting. When the button is released, normal operation is resumed. This test mode will allow setup and testing of the current loop without having to alter the system pressure.

To set the test output level, press and hold the front-panel TEST button and press the up or down arrow buttons to adjust the test output to the desired pressure setting. When the TEST button is released the setting is stored in non-volatile memory.

Calibration Preparation

Gauges are calibrated at the factory using equipment traceable to NIST. There is no need to calibrate the gauge before putting it into service.

Calibration should only be performed by gualified individuals using appropriate calibration standards and procedures. Gauges can be returned to factory for certified recalibration and repairs. NIST traceability is available.

Calibration intervals depend on your guality control program requirements and as-found data. Many customers calibrate their equipment annually.

The calibration equipment should be at least four times more accurate than the gauge being calibrated. The calibration system must be able to generate and measure pressure and/or 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. Use a stable DC power supply and an accurate mA meter for

calibration of loop powered transmitters. Allow the gauge to equalize to normal room temperature for at least

20 minutes before calibration.

The F16L series uses a user-modifiable calibration pass code to enter the calibration mode. In the calibration mode, the gauge automatically recognizes the calibration region corresponding to the applied pressure. There are 3, 4, or 5 calibration regions depending upon the pressure range of the gauge. All gauges have Zero, +Midpoint, and +Span regions. Vacuum/pressure gauges will also have a –Span region, and a ± 15 psig sensor will have a –Midpoint region as well.

Calibration of the loop output coordinates the 4-20 mA output to the display indication, and is performed independently of applied pressure. It requires a direct physical measurement of the output. Calibration of the output coordinates the loop output to the display indication, and normally does not need to be adjusted.

Entering the Calibration Mode

- 1. While pressing and holding the ▼ button, press the TEST button to enter the calibration mode. The upper section of the display will indicate CAL
- 2. When all buttons are released, the upper section of the display will indicate with the left-most position blinking, and the lower section will indicate PASS. To exit and return to the normal operating mode, press and release the TEST button
- 3. Enter the user-modifiable calibration pass code (3510 factory default) Use \blacktriangle or \blacktriangledown to set the left-most digit to 3.
- Press and release the TEST button to move to the next position. The 3 will remain, and the second position will be blinking. Use ▲ or ▼ to select 5.

Press and release TEST to move to the next position. 3 5 will remain, and the third position will be blinking. Use \blacktriangle or \blacktriangledown to select 1.

Press and release the TEST to move to the next position. 3 5 1 will remain, and the fourth position will be blinking. Use \blacktriangle or \blacktriangledown to select 0.

4. Press and release the TEST button to proceed with calibration.

If an incorrect pass code was entered, the gauge will to exit to the normal operating mode.

Calibration

Upon successful calibration pass code entry, the upper display will indicate the applied pressure in the configured engineering units with the corresponding loop current.

The lower display will alternate between CAL and the calibration region corresponding to the applied pressure (ZERO, +MID, +SPAN, –MID, or –SPAN).

Note: To store the calibration parameters and exit calibration mode at any time, press and hold the TEST button until the display indicates

Loop Current Calibration

www.mod-tronic.com | sales@mod-tronic.com | 1-800-794-5883

Loop current calibration coordinates the loop current to the display indication, and is performed independently of applied pressure. It requires a direct physical measurement of the loop current. Note: During any of the following calibration steps if the TEST button

Calibration—continued

is held depressed for longer than 2 seconds, the display will change to indicate - - - -, and the gauge will exit the calibration mode when all buttons are released.

F16L, F16LN 🖌

4 mA loop current

Press the TEST button and release it when the display indicates LCAL. The upper display segments will indicate the pre-configured pressure corresponding to a 4 mA loop current.

The lower display segments will alternate between CAL and 4 MA. Use ▲ or ▼ to adjust the actual loop current to 4 mA.

20 mA loop current

Press the TEST button and release it when the display indicates HCAL. The upper display segments will indicate the preconfigured pressure corresponding to a 20 mA loop current.

The lower display segments will alternate between CAL and 20 MA. Use ▲ or ▼ to adjust the actual loop current to 20 mA.

Pressure Calibration

The pressure calibration procedure simultaneously adjusts both the display indication and the loop current to correspond to the actual applied pressure

Note: During any of the following calibration steps if the TEST button is held depressed for longer than 2 seconds, the display will change to indicate - - - -, and the gauge will exit the calibration mode when all buttons are released.

Zero calibration

Press the TEST button and release it when the display indicates CAL. Apply zero pressure

The lower display will alternate between CAL and ZERO.

Use \blacktriangle or \blacktriangledown to adjust the upper display to indicate zero.

Span calibration

Apply full-scale pressure.

The lower display will alternate between CAL and +SPAN.

Use \blacktriangle or \checkmark to adjust the upper display to indicate the applied pressure. Midpoint non-linearity calibration

Apply 50% full-scale positive pressure.

The lower display will alternate between CAL and +MID. Use \blacktriangle or \blacktriangledown to adjust the upper display to indicate the applied pressure.

Negative span calibration (bipolar and compound ranges only)

Apply full-scale negative pressure.

The lower display will alternate between CAL and -SPAN.

Use \blacktriangle or \blacktriangledown to adjust the upper display to indicate the applied pressure.

Negative midpoint non-linearity calibration (±15 psi bipolar range) Apply 50% full-scale negative pressure.

The lower display segments will alternate between CAL and -MID. Use \blacktriangle or \checkmark to adjust the upper display to indicate the applied pressure. Save and exit

To store the calibration parameters and exit calibration mode, press and hold the TEST button until the display indicates - -

Calibration Pass Code

- 1. While pressing and holding the ▲ button, press the TEST button to enter the configuration mode. The upper section of the display will indicate CFG
- 2. When all buttons are released, the upper section of the display with the left-most position blinking, and the will indicate lower section will indicate PASS. To exit and return to the normal operating mode, press and release the TEST button.

3. Enter factory pass code 1220

Use \blacktriangle or \triangledown to set the left-most digit to 1.

Press and release the TEST button to index to the next position. Use ▲ or ▼ to select 2.

Press and release the TEST button to index to the next position. The third position will be blinking. Press use ▲ or ▼ to select 2. Press and release the TEST button to index to the next position. The

fourth position will be blinking. Use \blacktriangle or \blacktriangledown to select 0.

- 4. Press and release the TEST button to proceed to the configuration parameters. Note: If an incorrect pass code was entered, the gauge will exit to the normal operating mode.
- 5. The upper display section will indicate the calibration pass code. The lower section will display UDPCD. 6. To change the calibration pass code, press and release the \blacktriangle or

▼ button. The first character of the pass code will begin to blink.

Use \blacktriangle or \triangledown to set the blinking character to the desired value,

then press and release the TEST button to move to the next

7. When the calibration pass code is displayed with no characters

blinking, press and release the TEST button to save the new pass

code and restart the gauge. Note: To make a correction to the new

calibration pass code before saving and restarting, press either the

▲ or ▼ button to return to the UDPCD code entry sequence.

character. Repeat for each character position.

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