Cecomp[®] Programmable 4-Wire Digital Pressure Transmitters

Ranges and Resolution

See table below. Consult factory for special engineering units. Resolution is fixed as indicated in table.

+ -HA ontion not available

PSI					
101	Res	inHg/PSI	Res	mmH₂O	Res
3PSIG [‡]	.001	-30V15PSIG [‡]	.1	2100MMH20G [‡]	1
5PSIG [‡]	.001	-30V100PSIG [‡]	.1	3500MMH20G [‡]	1
15PSIA	.01	-30V200PSIG [‡]	.1	cmH₂O	Res
15PSIVAC [‡]	01	inH ₂ O	Res	210CMH20G [‡]	1
+15DSIC	.01	95INH20Ct	01	2500MH200	.1
±15P5IG*	.01	60INH2UG*	.01	30061111206*	.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
_15V100PSIC#	1	950INH20A	1	2100000000	1
100000	.1	050INII20A	1	210000011200	Dee
TOUPSIG		850INH20G	-	кра	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
1000F310	1	140571120	.1		.1
2000PSIG		140F1H20	.1	TUUKPAG	
3000PSIG	1	230FTH20	.1	200KPAA	.1
5000PSIG	1	480FTH20	.1	200KPAG	.1
oz/in ²	Res	700FTH20	.1	400KPAG	.1
507ING [‡]	.01	1150FTH20	1	700KPAA	1
907INC±	1	2200ETU20	1	700КГАА	1
04071114	.1	2300FTH20	1	100KFA0	.1
240ZINA	.1	4600FTH20		-100V/00KPAG*	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
4807ING	1	760MMHGA	1	7000KPAG	1
inHa	Doc	760MMHCVAC‡	1	MPo	Doc
	nes	700WIWINGVAC	.1		nes
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
	04	_			
±30INHGG+	1.01	Torr	Res	7MPAG	.001
±30INHGG*	.01	Torr 760T0RBA	Res 1	7MPAG 14MPAG	.001
±30INHGG* 30INHGG	.01	Torr 760TORRA 760TORPVAC‡	Res .1	7MPAG 14MPAG 20MPAG	.001
30INHGG 30INHGG 60INHGA	.01 .01 .01	Torr 760TORRA 760TORRVAC [‡]	Res .1 .1	7MPAG 14MPAG 20MPAG	.001 .01 .01
±30INHGG 30INHGG 60INHGA 60INHGG	.01 .01 .01 .01	Torr 760TORRA 760TORRVAC [‡] 1600TORRA	Res .1 .1 1	7MPAG 14MPAG 20MPAG 35MPAG	.001 .01 .01 .01
±30INHGG 30INHGG 60INHGA 60INHGG 120INHGG	.01 .01 .01 .01 .1	Torr 760TORRA 760TORRVAC [‡] 1600TORRA mbar	Res .1 .1 1 Res	7MPAG 14MPAG 20MPAG 35MPAG g/cm²	.001 .01 .01 .01 Res
±30INHGG 30INHGG 60INHGA 60INHGG 120INHGG 200INHGA	.01 .01 .01 .01 .1	Torr 760TORRA 760TORRVAC [‡] 1600TORRA mbar 200MBARG [‡]	Res .1 .1 1 Res .1	7MPAG 14MPAG 20MPAG 35MPAG g/cm ² 200GCMG [‡]	.001 .01 .01 Res .1
±301NHGG* 301NHGG 601NHGA 601NHGG 1201NHGG 2001NHGA -30V2001NHGG*	.01 .01 .01 .1 .1 .1	Torr 760TORRA 760TORRVAC [‡] 1600TORRA mbar 200MBARG [‡] 350MBARG [‡]	Res .1 .1 Res .1 .1	7MPAG 14MPAG 20MPAG 35MPAG g/cm ² 200GCMG [‡] 350GCMG [‡]	.001 .01 .01 Res .1
±30INHGG 30INHGG 60INHGA 60INHGG 120INHGG 200INHGA -30V200INHGG [‡] 200INHGG	.01 .01 .01 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA	Res .1 .1 Res .1 .1 .1 .1	7MPAG 14MPAG 20MPAG 35MPAG g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA	.001 .01 .01 Res .1 .1 .1
±30INHGG* 30INHGG 60INHGA 60INHGG 120INHGG 200INHGG -30V200INHGG* -30V400INHGG*	.01 .01 .01 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA	Res .1 .1 Res .1 .1 .1 1 1	7MPAG 14MPAG 20MPAG 35MPAG g/cm ² 200GCMG ⁴ 350GCMG ⁴ 1000GCMA	.001 .01 .01 Res .1 .1 .1 1
±30INHGG 30INHGG 60INHGA 60INHGG 120INHGG 200INHGG 200INHGG -30V400INHGG	.01 .01 .01 .1 .1 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARAC [‡]	Res .1 .1 Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	7MPAG 14MPAG 20MPAG 35MPAG g/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] +1000GCMAC [‡]	.001 .01 .01 .01 Res .1 .1 .1 1 1
30INHGG* 30INHGG 60INHGA 60INHGG 120INHGG 200INHGG 200INHGG 200INHGG 400INHGG 400INHGG	.01 .01 .01 .1 .1 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] ±1000MBARG [‡]	Res .1 .1 .1 Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	7MPAG 14MPAG 20MPAG 35MPAG 9/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMCG [‡]	.001 .01 .01 Res .1 .1 .1 .1 1 1 1
301NHG4* 301NHG6 601NHGA 601NHGG 1201NHGG 2001NHGG 2001NHGG 2001NHGG 4001NHGG 6001NHGG	.01 .01 .01 .1 .1 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARVAC [‡] ±1000MBARG [‡]	Res .1 .1 .1 Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	7MPAG 14MPAG 20MPAG 35MPAG 9/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMAC [‡] ±1000GCMG [‡] 1000GCMG [‡]	.001 .01 .01 Res .1 .1 .1 1 1 1 1
301NHG6* 301NHG6 601NHGA 601NHGG 1201NHGG 2001NHGG 2001NHGG 2001NHGG 4001NHGG 6001NHGG 10001NHGG	.01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARAG [‡] 1000MBARG [‡] 1000MBARG	Res .1 .1 .1 Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	7MPAG 14MPAG 20MPAG 35MPAG 9/cm ² 2006CMG ⁴ 3506CMG ⁴ 10006CMA ±10006CMG ⁴ 10006CMG 21006CMA	.001 .01 .01 .01 Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
30INHGG* 30INHGG 60INHGA 60INHGA 60INHGG 120INHGG 200INHGG 200INHGG -30V200INHGG* 200INHGG -30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG	01 01 01 01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARAG [‡] 1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARG	Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	7MPAG 14MPAG 20MPAG 35MPAG 9/cm ² 2006CMG [‡] 3506CMG [‡] 10006CMA 10006CMA ±10006CMG 21006CMA 21006CMA	.001 .01 .01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
30INHGG* 30INHGG 60INHGA 60INHGG 120INHGG 200INHGG 200INHGG 200INHGG 200INHGG 200INHGG 30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG 400INHGG 400INHGG 400INHGG 400INHGG 400INHGG 4000INHGG	.01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARVAC [‡] 1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARG bar	Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	7MPAG 14MPAG 20MPAG 35MPAG 9/cm ² 2006CMG ⁴ 3506CMG ⁴ 10006CMA 10006CMAC ⁴ ±10006CMG ⁴ 21006CMG 21006CMA 21006CMG kg/cm ²	.001 .01 .01 .01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
30INHGG* 30INHGG 60INHGG 60INHGG 120INHGG 200INHGG 200INHGG 30V400INHGG 400INHGG 600INHGG 1000INHGG 2000INHGG 400INHGG 2000INHGG 400INHGG 2000INHGG 1000INHGG 2000INHGG 4000INHGG 2000INHGG	.01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARVAC [‡] 1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARA 2000MBARA 2000MBARA	Res .1 .1 Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	7MPAG 14MPAG 20MPAG 35MPAG g/cm ² 200GCMG ⁴ 350GCMG ⁴ 1000GCMAC ⁴ ±1000GCMG ⁴ 1000GCMG 2100GCMG 2100GCMA 2100GCMG kg/cm ² 1KGCMA	.001 .01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
30INHGG* 30INHGG 60INHGA 60INHGA 60INHGG 120INHGG 200INHGG 200INHGG 200INHGG 301V400INHGG* 200INHGG 600INHGG 600INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 2000INHGG 4000INHGG 1000INHGG 11TMA	.01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARA ±1000MBARG 2000MBARA 2000MBARA 2000MBARA 1000MBARG bar 1BARA 1BARA	Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	7MPAG 14MPAG 20MPAG 35MPAG 9/cm ² 200GCMG [‡] 350GCMG [‡] 1000GCMA ±1000GCMG 2100GCMG 2100GCMG 2100GCMG kg/cm ² 1KGCMA	.001 .01 .01 .01 .01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
30INHGG* 30INHGG 60INHGA 60INHGA 60INHGA 200INHGG 200INHGG 200INHGG 200INHGG 200INHGG 200INHGG 200INHGG 600INHGG 600INHGG 2000INHGG 2000INHGG 4000INHGG 2000INHGG 4000INHGG 1000INHGG 4000INHGG 1000INHGG 1000INHGG 1000INHGG	.01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARA 1000MBARG [‡] 1000MBARG 2000MBARA 2000MBARA 2000MBARA 1BARA 1BARA 1BARA	Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	7MPAG 14MPAG 20MPAG 35MPAG 35MPAG 9/cm ² 2006CMG ⁴ 1000GCMA 1000GCMA 1000GCMG ±1000GCMG 2100GCMG 2100GCMG 2100GCMG kg/cm ² 1KGCMG KGCMVAC ⁴ ±1KGCMG ⁴	.001 .01 .01 .01 .01 .01 .01 .01 .01 .01
301NHGG* 301NHGG 601NHGA 601NHGG 1201NHGG 2001NHGG 2001NHGG 2001NHGG 2001NHGG 4001NHGG 10001NHGG 10001NHGG 40001NHGG 40001NHGG 10001NHGG 10001NHG 10001NHG 10001NHG 10001NHG	.01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760TORRA 760TORRVAC [‡] 1600TORRA mbar 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARA 1BARAC [‡] 1BARG [‡]	Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	7MPAG 14MPAG 20MPAG 35MPAG 35MPAG 9/cm ² 2006CMG [‡] 10006CMA 10006CMA 10006CMA 10006CMG 21006CMG 21006CMG 21006CMG 21006CMG 1006CMA 21006CMG ±1KGCMCA [‡]	.001 .01 .01 .01 .01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .001 .001 .001
±30INHGG* 30INHGG 60INHGA 60INHGA 60INHGG 120INHGG 200INHGG 200INHGG 200INHGG 400INHGG 400INHGG 1000INHGG 1000INHGG 4000INHGG 4000INHGG 1000INHGG 4000INHGG 1111 1111 111	.01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARA 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARVAC [‡] ±1BARG [‡] 1BARG	Res .1 .1 Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	7MPAG 14MPAG 20MPAG 35MPAG 35MPAG 9/cm ² 2006CMG ⁴ 10006CMA 10006CMAC ⁴ ±10006CMAC ⁴ ±10006CMG 21006CMA 21006CMA ±1006CMA ±1KGCMA	.001 .01 .01 .01 Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .0 .001 .001 .001 .001
±30INHGG* 30INHGG 60INHGG 60INHGG 120INHGG 200INHGG 200INHGG 200INHGG 200INHGG 400INHGG 600INHGG 1000INHGG 1000INHGG 1000INHGG 1000INHGG 1000INHGG 1000INHGG 1000INHGG 11ATMA 1ATMVAC* ±1ATMG [‡] 1ATMG [‡]	.01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760TORRA 760TORRVAC [‡] 1600TORRA 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARA 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARG bar 1BARA 1BARVAC [‡] ±1BARG [‡] 1BARG 2BARA 2BARA	Res .1 .001 .001 .001 .001 .001	7MPAG 14MPAG 20MPAG 35MPAG g/cm ² 200GCMG ⁴ 350GCMG ⁴ 1000GCMA 1000GCMAC ⁴ ±1000GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG ±1KGCMA 1KGCMAC ⁴ ±1KGCMG 2KGCMA	.001 .01 .01 .01 Res .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .0 .001 .001 .001 .001
301NHGG* 301NHGG 601NHGA 601NHGA 601NHGG 1201NHGG 2001NHGG 2001NHGG 2001NHGG 30V4001NHGG 4001NHGG 10001NHGG 10001NHGG 10001NHGG 10001NHGG 11TMA 1ATMA 1ATMAC* ±1ATMG* 1ATMG 2ATMA	.01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRVAC [‡] 1600T0RRA 200MBARG [‡] 350MBARG [‡] 1000MBARG [‡] 1000MBARA 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARA 2000MBARG bar 1BARA 1BARVAC [‡] ±1BARG [‡] 1BARG 2BARA 2BARG	Res .1 .001 .001 .001 .001	7MPAG 14MPAG 20MPAG 35MPAG g/cm ² 200GCMG ⁴ 350GCMG ⁴ 1000GCMAC ⁴ ±1000GCMG ⁴ 1000GCMG 2100GCMA 2100GCMG 2100GCMA 2100GCMA 2100GCMA ±1KGCMA 1KGCMAC ⁴ ±1KGCMG ⁴	.001 .01 .01 .01 .01 .01 .01 .01 .01 .001 .001 .001
30INHG¢* 30INHG6 60INHGA 60INHGA 60INHGA 200INHGG 200INHGG 200INHGG 200INHGG 200INHGG 200INHGG 600INHGG 600INHGG 2000INHGG 2000INHGG 4000INHGG 2000INHGG 4000INHGG 2000INHGG 1ATMA 1ATMA 1ATMG [‡] 1ATMG 2ATMA 2ATMG	.01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760T0RRA 760T0RRAC [‡] 1600T0RRA 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARA [±] 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARA 2000MBARA 2000MBARA 1BARA 1BARA 1BARA 1BARA 1BARA 2BARG 2BARA 2BARG 4BARG	Res .1	7MPAG 14MPAG 20MPAG 35MPAG 35MPAG 2006CMG [‡] 3506CMG [‡] 10006CMA 10006CMA 21006CMG 21006CMG 21006CMG 21006CMG 21006CMA 21006CMG 1KGCMAC [‡] 1KGCMG [‡] 1KGCMG [‡] 1KGCMG [‡]	.001 .01 .01 .01 .01 .01 .01 .01 .01 .001 .001 .001 .001
301NHG4* 301NHG4 301NHG6 601NHGA 601NHG6 1201NHG6 2001NHG6 2001NHG6 2001NHG6 2001NHG6 4001NHG6 6001NHG6 10001NHG6 20001NHG6 40001NHG6 10001NHG6 10001NHG6 11ATMA 1ATMAC ⁺ ±1ATMG ⁺ 1ATMG 2ATMA 2ATMG 4ATMG 4ATMG	.01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760TORRA 760TORRAC [‡] 1600TORRA 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARA 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARA 2000MBARA 2000MBARA 100ARG 200MBARA 2000MBARA 200MBARA 200MBARA 200MBARA 200MBARA 200MBARA 200MBARA 200MBARA 200MBARA 200MBARA	Res .1	7MPAG 14MPAG 20MPAG 35MPAG 35MPAG 2006CMG [‡] 3506CMG [‡] 10006CMA 10006CMA 10006CMG 21006CMG 21006CMG 21006CMG 21006CMG 21006CMG 1KGCMG 1KGCMG 2KGCMA 2KGCMA 2KGCMG 4KGCMG	.001 .01 .01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .001 .001 .001 .001 .001 .001 .001
	.01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760TORRA 760TORRVAC [‡] 1600TORRA 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARA 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARG 2000MBARG 2000MBARG 1BARA 1BARVAC [‡] ±1BARG [‡] 1BARG 2BARA 2BARG 4BARG 7BARA	Res .1 .001 .001 .001 .001 .001 .001 .001 .001	7MPAG 14MPAG 20MPAG 35MPAG 35MPAG 9/cm ² 2006CMG [‡] 10006CMA 10006CMAC [‡] 10006CMAC [‡] 10006CMG 21006CMG 21006CMG 21006CMA 21006CMA 1KGCMG 1KGCMG 2KGCMA 2KGCMG 4KGCMG 7KGCMA	.001 .01 .01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .0 .001 .001 .001 .001 .001 .001 .001
	.01 .01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760TORRA 760TORRAC [‡] 1600TORRA 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARAG [‡] 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARG 2000MBARA 2000MBARG 1BARA 1BARVAC [‡] 1BARG 2BARA 2BARG 2BARA 2BARG 7BARA 7BARG -1V7BARG [‡]	Res .1 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001	7MPAG 14MPAG 20MPAG 35MPAG 9/cm ² 2006CMG ⁴ 3506CMG ⁴ 10006CMA 10006CMAC ⁴ ±10006CMA 21006CMG 21006CMG 21006CMA 21006CMG 1KGCMG 1KGCMG 2KGCMA 2KGCMG 4KGCMG 7KGCMA	.001 .01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
301NHGG* 301NHGG 601NHGG 601NHGG 1201NHGG 2001NHGG 2001NHGG 2001NHGG 2001NHGG 30V4001NHGG 4001NHGG 10001NHGG 10001NHGG 10001NHGG 10001NHGG 10001NHGG 11TMA 1ATMA 1ATMA 1ATMAC* ±1ATMG* 1ATMG 2ATMG 4ATMG 7ATMA 7ATMG -1V7ATMG*	.01 .01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760TORRA 760TORRVAC [‡] 1600TORRA 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARA 1000MBARG [‡] 1000MBARG 2000MBARG 2000MBARA 2000MBARG 2000MBARA 2000MBARG 2000MBARG 2000MBARG 2000MBARG 2000MBARG 2000MBARG 2000MBARG 2000MBARG 2000MBARG 2000MBARG 18ARG 18ARG 7BARA 7BARG -1V7BARG [‡] 14BARG	Res .1 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001	7MPAG 14MPAG 20MPAG 35MPAG g/cm ² 200GCMG ⁴ 350GCMG ⁴ 1000GCMA 1000GCMAC ⁴ 1000GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 100GCMG 100GCMG 100GCMG 100GCMG 200GCMG 200GCMG 200GCMG 100GCMG 200GCMG	.001 .01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
30INHG¢* 30INHG6 60INHGA 60INHGA 60INHGA 200INHGG 200INHGG 200INHGG 200INHGG 200INHGG 200INHGG 600INHGG 600INHGG 2000INHGG 2000INHGG 4000INHGG 2000INHGG 4000INHGG 2000INHGG 4000INHGG 2000INHGG 4000INHGG 2000INHGG 4000INHGG 2000INHGG 4000INHGG 200INHGG 4000INHGG 200INHGG 4000INHGG 200INHGG 4000INHGG 200INHGG 4000INHGG 2ATMA 2ATMA 2ATMA 2ATMA 2ATMG 7ATMA 7ATMG 14ATMG	.01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1	Torr 760TORRA 760TORRA 1600TORRA 200MBARG [‡] 350MBARG [‡] 1000MBARA 1000MBARA 1000MBARG 2000MBARG 2000MBARG 2000MBARG 2000MBARA 2000MBARG 1BARA 1BARVAC [‡] 1BARG [‡] 1BARG 2BARA 2BARG 4BARG 7BARA 7BARG -1V7BARG [‡] 1V14BARG [‡]	Res .1 .01 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001	7MPAG 14MPAG 20MPAG 35MPAG 35MPAG 350GCMG [‡] 350GCMG [‡] 1000GCMA 1000GCMA 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 2100GCMG 100GCMG 21	.001 .01 .01 .01 .01 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1
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Accuracy

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

4 readings per second nominal display update rate 4 digit LCD, 0.5" H and 5 character 0.25" H alphanumeric DRBL: Red LED backlight on when gauge is on

- Controls SEL Select display for setup TEST Set output to test level when in test mode Increase when in test or calibration mode ▲ Up:
 - Down: Decrease when in test or calibration mode

• Zero/tare function can be enabled or disabled

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

Output Characteristics

Updated approximately 16 times per second User scalable pressure range to correspond to output

- Current output, 4-20 mA DC -I: Output drive (compliance) determined by power source
- 6,553 counts over sensor range -V: Voltage output, 0-2 VDC into 5k ohm or greater
- 6,553 counts over sensor range -BV: Bipolar voltage output (-2 - 0 - 2 V) for ±15 psig sensor only ±2 VDC into 5k ohm or greater
 - 13,107 counts over sensor range

Power

- 8-24 VAC 50/60 Hz or 9-32 VDC
- Gauge is on when power is on. Designed for continuous operation. 30 mA maximum DR:
- DRBL Approximately 40 mA maximum

Weight

9.5 ounces (approx.), shipping wt. 1 pound (approx.)

Housing

F16DR: Extruded aluminum case, epoxy powder coated, ABS/ polycarbonate bezel (aluminum bezel optional), front and rear gaskets, polycarbonate label

F16DRN: ABS/polycarb. NEMA 4X case, rear gasket, polycarb. label

Connection, Material, Media Compatibility 1/4" NPT male fitting. 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 Vac. service: ±15 psig, 15 psig, 30 psia, 100 psig, 100 psia, 200 psig 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)



F16DR

NEMA 4X Housing

How to Specify Туре Standard housing F16DR range - output - options Standard housing, F16DRBL range - output - options backlit display NEMA 4X housing F16DRN range - output - options NEMA 4X housing, F16DRNBL range - output - options backlit display Range-see table at left psi = PSI torr = TORRmbar = MBARinHg = INHG $mmH_20 = MMH20$ bar = BAR $oz/in^2 = ZIN$ $kg/cm^2 = KGCM$ $cmH_2O = CMH2O$ $inH_20 = INH20$ $g/cm^2 = GCM$ atm = ATM $ftH_20 = FTH20$ kPa = KPA mmHg = MMHG MPa = MPAG = gauge reference pressure VAC = gauge reference vacuum A = absolute reference If vacuum gauge requires a minus sign, please specify. Output Specify: 4-20 mA 0-2 V RV ± 2 V for ranges using ± 15 psig sensor only Options-add to end of model number High accuracy, $\pm 0.1\%$ FS ± 1 LSD. See table at left for HA availability. Panel mount, 4.1" x 4.1", n/a NEMA 4X PM CC Moisture resistant circuit board conformal coating

Quick Link: cecomp.com/xmtr

Calibration data; 5 test points and date CD 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 Division of Electronics

BSOLUTE PROCESS INSTRUMENTS, Inc.

1220 American Way Libertyville, IL 60048 Phone: 800-942-0315 Fax: 800-949-7502



F16DR, F16DRN

- ±0.25% Test Gauge Accuracy
- 316L Stainless Steel Wetted Parts
- Low Voltage Powered

4-20 mA or 0-2 V Analog Output

Output Test Function





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.
- Avoid permanent sensor damage! Do not apply vacuum to non-vacuum gauges or hydraulic vacuum to any gauges.
- Xovid 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.
- NEVER connect the gauge wires directly to 115 VAC or permanent damage will result.

Types of Gauges

Gauge reference models 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 sensors are a sealed reference type. They read zero with the gauge port open are internally referenced to 14.7 psi. They are functionally similar to gauge reference sensors.

Absolute reference gauges read zero at full vacuum and atmospheric pressure with the gauge port open. Note that readings of atmospheric pressure vary continuously.

Display and Keypad



Electrical Connections

Connection is made with the four conductor cable at the gauge rear. This cable accommodates both the gauge power supply and retransmission output.

Route the wires away from heat sources and moving equipment. See wiring diagram.

Power

The F16DR series can be powered by any 9 to 32 VDC or 8 to 24 VAC 50/60 Hz power source. An inexpensive unregulated low voltage source can be used. The magnitude of the supply voltage has negligible effect on the gauge calibration as long as it is within the stated voltage ranges.

Division of



Electrical Connections—continued

Do not allow the gauge supply voltage fall below 9 VDC or 8 VAC RMS. Operation below these values may cause erratic or erroneous readings or output. Models with 4-20 mA output power the current loop. Use a power source with sufficient voltage to operate the current loop.

Connect power as shown below. When using low voltage AC power, either polarity may be used. Use the correct polarity with a DC supply.



Note that standard 24 VAC transformers with small loads may operate at voltages over the 24 VAC limit.

Output

If the analog output is not required, the transmitter will function as a low voltage powered gauge. Protect the output wires to prevent a short circuit.

NEVER connect retransmission output wires together or to an external power source or permanent damage will result.

Use of the shield (drain) wire is optional. It is not generally needed for 4-20 mA current loops unless very long cable lengths are used in electrically noisy environments.

The -I version with 4-20 mA output provides power to the current loop. Use a gauge power source with sufficient voltage to operate the current loop.

For long cable runs, 4-20 mA output model provides better performance.

The power supply (-) lead is tied to the retransmission output ground. If a DC supply is used, the power supply (-) lead is common with regard to the retransmission output (-) connection.

For 4-20 mA output models, be sure to observe the output compliance (voltage drive) capabilities of the gauge. The compliance, and therefore the maximum loop resistance the output can drive, is a function of the supply voltage to the gauge. Too large a loop resistance will cause the gauge output to "limit" or saturate before reaching its full 20 mA output.

When using the 0-2 volt retransmission output, do not allow the resistive load on the output to fall below 5k ohms. Avoid large capacitive loads (greater that 1000 pF) such as those caused by long runs of shielded cable. For long cable runs, use a 4-20 mA output model.

The retransmission output corresponds to the applied pressure, except when in zero/tare mode, test mode, or during setup. Characteristics of the output types are listed below.

See specifications for output resolution.

Note that analog output resolution is always over the entire sensor range and is updated approximately 16 times per second.

Range Type	Output Option	Full vacuum	"0" on display	Full pressure
Gauge reference	-1	n/a	4 mA	20 mA
pressure	-V	n/a	0 V	2 V
Gauge reference	-1	20 mA	4 mA	n/a
vacuum	-V	2 V	0 V	n/a
Abaaluta rafaranaa	-1	4 mA	4 mA	20 mA
Absolute reference	-V	0 V	0 V	2 V
Vacuum/pressure	-1	4 mA	12 mA	20 mA
ranges using ±15 psi	-V	0 V	1 V	2 V
sensor	-BV	-2 V	0 V	2 V
Vacuum/pressure	-1	4 mA	~6.1 mA	20 mA
psi sensor	-V	0 V	~0.26 V	2 V
Vacuum/pressure	-1	4 mA	~5.1 mA	20 mA
psi sensor	-V	0 V	~0.14 V	2 V

Operation

When power is first applied, the gauge proceeds through a startup sequence. During the startup sequence the retransmission output is low (-2.5 VDC or 0 mA).

The firmware version number is displayed briefly

All active display segments are turned on for approx. 1 second. The full scale pressure is indicated for approx. 1 second while the engineering units and FS (full scale) are indicated for 1/2 second on the character display.

The display is tested again for approximately 1 second.

The gauge then proceeds to the normal operating mode.

The retransmission output corresponds to the applied pressure, except when in zero/tare mode, test mode, or during setup.

The gauge is powered on whenever a supply voltage is applied. Warm-up time is negligible.

The gauge may be left on at all times.

All configuration information is stored in non-volatile memory.

Output Test Mode

From the normal operating mode, press and hold the TEST button and press the SEL button. Release both buttons when the display indicates --- or $_--$.

If pass code protection is enabled, the display indicates ____ with the left-most underscore blinking, and TSTPC.

Enter the pass code as described in the Pass Code $\ensuremath{\mathsf{Entry}}$ section.

While in the Test mode with no buttons pressed, the display will indicate the pressure with the engineering units blinking at a slow rate.

When the TEST button is pressed, the display will indicate the preset test value with TEST on the lower display, and the retransmission output will correspond to the test value.

Pressing the \blacktriangle or the \blacktriangledown button while holding the TEST button will raise or lower the test value. Note that the gauge will not respond to changes in applied pressure while the TEST button is held.

When the TEST button is released, the display will correspond to the applied pressure.

Press and release the SEL button to exit the Output Test mode and return to normal operation.

Zero Tare Mode

If the gauge is not indicating zero with zero pressure applied but is within approximately 3% of full scale pressure of zero, it is possible to tare the gauge to zero.

The zero tare function may be enabled or disabled in User Configuration. It is disabled for absolute reference gauges. If disabled, it may be enabled in User Configuration.

Note that this procedure can only be used with absolute pressure gauges if a full vacuum is applied to the gauge port using a vacuum pump capable of creating at least 100 millitorr.

From the normal operating mode with applied pressure equal to zero, press and hold both the \blacktriangle and \blacktriangledown buttons and press the SEL button.

The retransmission output will hold the last value.

Release all buttons when the display indicates ' o o o o '.

The display will initially indicate a newly calculated zero tare value with Z OFF on the character segments. Note: If not within approximately 3% of zero, Err0 will be displayed.

Press the SEL button to clear the error and return to normal mode without affecting any existing zero tare value.

To cancel and remove any existing zero tare value, press and release the \checkmark button.

The display will indicate zero.

To restore the newly calculated zero tare value, press and release the \blacktriangle button.

To exit the Zero/Tare mode, press and release the SEL button. The gauge will return to the normal mode. The display and the retransmission output will correspond to applied pressure.







Instructions

Pass Code Entry

A pass code is required to calibrate and configure the gauge. Additional levels of security may be enabled by defining separate pass codes for calibration, user configuration, and output test.

See Changing the User-Defined Pass Code at the end of this manual to change pass codes.

Functions in user configuration mode

Restore original factory configuration

Enable/disable zero tare function

Retransmission output upper and lower limits Enable/disable a pass code for output test

When the gauge enters a mode requiring a pass code, the display indicates _____ with the first underscore blinking, and either TSTPC, CFGPC, CALPC on the lower display. All three pass codes are initially set to the factory default of 3510.

Note: During pass code entry the gauge will not respond to changes in applied pressure. The gauge will automatically revert to the normal operation if no buttons are operated for approximately 15 seconds.

Use the \blacktriangle and \blacktriangledown buttons to set the left-most digit to 3.

Press and release the SEL button to index to the next position. The 3 will remain, and the second position will be blinking.

Use the \blacktriangle and \blacktriangledown buttons to select 5.

Press and release the SEL button to index to the next position. 3 5 will remain, and the third position will be blinking.

Use the \blacktriangle and \blacktriangledown buttons to select 1.

Press and release the SEL button to index to the next position. 3 5 1 will remain, and the fourth position will be blinking.

Use the \blacktriangle and \blacktriangledown buttons to select 0.

Press and release the SEL button to proceed.

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

Upon successful pass code entry, follow the steps in the appropriate section of this manual.

Note: To exit a mode at any time, press and hold the SEL button until the display indicates ---.

User Configuration

From the normal operating mode, press and hold the TEST and the \blacktriangle buttons.

Then press the SEL button.

Release all buttons when the display indicates CFG.

Before the gauge enters the Configuration mode, the display initially indicates ____ with the first underscore blinking, and with CFGPC on the lower display.

Enter the pass code as described in the Pass Code Entry section. Restore Factory Configuration

The upper display will be blank, and the lower display will display either USER_ or FCTRY.

If USER_ is selected, the existing user configuration will be retained and will be accessible for modification in the following steps. To select USER_, press and release the ▼ button. The lower display will indicate USER_.

If FCTRY is selected, the existing user configuration will be replaced by the configuration as it left the factory and will be accessible for modification in the following steps. To select FCTRY, press and release the ▲ button. The lower display will indicate FCTRY.

Press and release the SEL button to move on to the next parameter.

Zero Tare Configuration

The upper display will be blank, and the lower display will indicate either ZTARE or NOZTR.

If ZTARE is selected, the user will be able to manually zero the gauge from the normal operating mode.

To select ZTARE, press and release the \blacktriangle button. The lower display will indicate ZTARE.

If NOZTR is selected the user will be prevented from zeroing the gauge from the normal operating mode. This is default setting for absolute reference ranges.

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User Configuration—continued

To select NOZTR, press and release the ▼ button. The lower display will indicate NOZTR.

Press and release the SEL button to move on to the next parameter.

Analog Output Range Lower Limit Adjust

The upper display will indicate the pressure value corresponding to the minimum retransmission output, either 4 mA, 0 VDC, or -2 VDC depending on the particular gauge model. The lower display will display RNGLO.

Use the \blacktriangle and \blacktriangledown buttons to adjust the display to the desired value.

Press and release the SEL button to move on to the next parameter.

Analog Output Range Upper Limit Adjust

The upper display will indicate the pressure value corresponding to the maximum retransmission output, either 4 mA or +2 VDC depending on the particular gauge model. The lower display will display RNGHI.

Use the \blacktriangle and \blacktriangledown buttons to adjust the display to the desired value.

Press and release the SEL button to move to the next parameter. Output Test Adjust Mode Pass Code Protection

The upper display section will be blank, and the lower section will display either TSTPC or NOTPC.

To enable Output Test Adjust Mode pass code protection, press and release the \blacktriangle button. The lower display will indicate TSTPC.

To disable Output Test Adjust Mode pass code protection, press and release the \blacktriangledown button. The lower display will indicate NOTPC.

Press and release the SEL button to save the configuration parameters and restart the unit. Note: The configuration parameters will not be saved if the procedure is interrupted before completion.

Calibration Preparation

The gauge is calibrated at the factory using equipment traceable to NIST. There is no need to calibrate the gauge before putting it in service. Calibration should only be performed by qualified individuals using appropriate calibration standards and procedures.

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/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 an accurate volt or mA meter for calibration of the retransmission output.

Allow the gauge to equalize to normal room temperature (about 20 minutes minimum) before calibration.

Calibration Pass Code

To enter the calibration mode from the normal operating mode with applied pressure being displayed, press and hold the TEST and the \checkmark buttons. Then press the SEL button. Release all buttons when the display indicates CAL.

When the gauge enters the calibration mode, the display initially indicates ____ with the first underscore blinking, and with CALPC on the lower display.

Enter the pass code as described in the Pass Code Entry section.

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

The lower display of the display will alternate between CAL and the calibration region corresponding to the applied pressure (ZER0, +MID, +SPAN, MID, or SPAN).

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

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Output Calibration

Calibration of the Retransmission Output

Calibration of the retransmission output coordinates the retransmission output to the display indication, and is performed independently of applied pressure. It requires a direct physical measurement of the retransmission output with an accurate mA or Volt meter.

F16DR, F16DRN

Retransmission Output Low Value

Press and release the SEL button to step to the retransmission output low value calibration sequence, indicated by LCAL on the display.

Note: If the SEL 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.

The upper display will indicate the pre-configured pressure corresponding to the retransmission output low value.

The lower display will alternate between CAL and 4 mA, 0 VDC, or -2 VDC depending on retransmission option.

Use the \blacktriangle and \blacktriangledown buttons to adjust the actual retransmission output to its low value.

Retransmission Output High Value

Press and release the SEL button to step to the retransmission output high value calibration sequence, indicated by HCAL on the display.

Note: If the SEL 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.

The upper display will indicate the pre-configured pressure corresponding to the retransmission output high value.

The lower display will alternate between CAL and 20 mA or +2 VDC depending on retransmission option.

Use the \blacktriangle and \blacktriangledown buttons to adjust the actual retransmission output to its high value.

Press the SEL button briefly to proceed to pressure calibration or hold the SEL button for 2 seconds to save and exit.

Pressure Calibration

The pressure calibration procedure adjusts the display indication, and the retransmission output to correspond to the actual applied pressure.

If the applied pressure is not being displayed, press and release the SEL button to step to the pressure calibration sequence, indicated by CAL on the display.

Note: If the SEL 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

Apply zero pressure.

The lower display will alternate between CAL and ZERO.

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

Span Calibration

Apply full-scale pressure.

The lower display will alternate between CAL and +SPAN.

Use the \blacktriangle and \bigtriangledown buttons to adjust the upper display to indicate the applied pressure value.

Midpoint Non-Linearity Calibration

Apply 50% full-scale positive pressure.

The lower display will alternate between CAL and +MID.

Use the \blacktriangle and \bigtriangledown buttons to adjust the upper display to indicate the applied pressure value.

Negative Span Calibration (bipolar and compound ranges only)

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Apply full-scale negative pressure.

cate the applied pressure value.

Continued on next page

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The lower display will alternate between CAL and SPAN. Use the \blacktriangle and \blacktriangledown buttons to adjust the upper display to indi-

Pressure Calibration—continued

Negative Midpoint Non-Linearity Calibration (bipolar ranges only)

Apply 50% full-scale negative pressure.

The lower display will alternate between CAL and MID.

Use the \blacktriangle and \blacktriangledown buttons to adjust the upper display to indicate the applied pressure value.

Exit Calibration Mode

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

Pass Code Configuration

Configuration Pass Code

From the normal operating mode, press and hold the TEST and the \blacktriangle buttons. Then press the SEL button. Release all buttons when the display indicates CFG.

Calibration Pass Code

From the normal operating mode, press and hold the TEST and the \checkmark buttons. Then press the SEL button. Release all buttons when the display indicates CAL.

Test and Set Point Adjust Pass Code (optional)

From the normal operating mode, press and hold the TEST button.

Then press the SEL button.

Release all buttons when the display indicates ----

Before the unit enters the view or change pass code mode, the display initially indicates ____ with the first underscore blinking, and with CFGPC, CALPC, or TSTPC on the lower display.

Note: during pass code entry, the LEDs will extinguish and the gauge will not respond to changes in applied pressure. The output relays will maintain their prior states and the retransmission output will maintain its prior value. The gauge will automatically revert to normal operation if no buttons are operated for approximately 15 seconds.

Enter Factory Pass Code 1220

Use the \blacktriangle and \blacktriangledown buttons to set the left-most digit to 1.

Press and release the SEL button to index to the next position. The 1 will remain, and the second position will be blinking.

Use the \blacktriangle and \blacktriangledown buttons to select 2.

Press and release the SEL button to index to the next position. 1 2 will remain, and the third position will be blinking.

Use the \blacktriangle and \blacktriangledown buttons to select 2.

Press and release the SEL button to index to the next position. 1 2 2 will remain, and the fourth position will be blinking.

Use the \blacktriangle and \blacktriangledown buttons to select 0.

Press and release the SEL button to proceed. Note: If an incorrect pass code was entered, the gauge will exit to the normal operating mode.

Once the correct password has been entered, the display will indicate the existing pass code with CFGPC, CALPC, or TSTPC on the character segments.

Note: while in the pass code change mode, the LEDs will extinguish and the unit will not respond to changes in applied pressure and the output relays will be de-energized.

Operate the \blacktriangle or \blacktriangledown button to select the first character of the calibration password.

When the correct first character is being displayed, press and release the SEL button to proceed to the next password character.

Repeat 1 and 2 above until the entire password is complete.

To exit the User-Defined Pass Code change mode, press and hold the SEL button.

Release the button when the display indicates --- and restarts in the normal operating mode.

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





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