Ranges and Resolution

See table below for popular ranges. Consult factory for special engineering units. Resolution is fixed as indicated. See our F16L series for ranges greater than 2000 or if more display resolution is required.

† -HA option is for output only and not supported by display

‡ -HA option not available

Del		αναπαυτο			
PSI	Res	inH₂O	Res	mmH₂O	Res
3PSIG [‡]	.01	85INH2OG‡	.1	2000MMH20G [‡]	1
5PSIG‡	.01	140INH20G‡	.1	cmH₂O	Res
15PSIA	.01	400INH20A	1	200CMH20G‡	.1
			_		
15PSIVAC [‡]	.01	400INH20VAC [‡]	1_	350CMH20G [‡]	1
±15PSIG‡	.1	±400INH20G‡	1	1000CMH20A	1
15PSIG	.01	400INH20G	1	1000CMH20VAC‡	1
30PSIA	.1	850INH20A	1	±1000CMH20G [‡]	1
30PSIG†	.1	850INH20G	1	1000CMH20G	1
60PSIG	.1	ftH₂O	Res	2000CMH20A	1
100PSIA	.1	7FTH20‡	.01	2000CMH20G	1
100PSIG	.1	12FTH20‡	.01	kPa	Res
200PSIG	.1	35FTH20 [†]	.1	20KPAG‡	.01
300PSIG†	1	70FTH20	.1	35KPAG‡	.1
	<u> </u>		-!-		.1
500PSIG	1	140FTH20	.1	100KPAA	.1
1000PSIG	1	230FTH20 [†]	1	100KPAVAC‡	.1
2000PSIG	1	480FTH20	1	±100KPAG [‡]	.1
oz/in²	Res	700FTH20	1	100KPAG	.1
			_		
50ZING‡	.1	1150FTH20	1	200KPAA	.1
80ZING [‡]	.1	mmHg	Res	200KPAG	.1
240ZINA	1	150MMHGG‡	.1	400KPAG	1
240ZINVAC‡	1	260MMHGG‡	1	700KPAA	1
±240ZING [‡]	1	760MMHGA	1	700KPAG	1
240ZING†	1	760MMHGVAC‡	1	1400KPAG	1
480ZINA	1	±760MMHGG‡	1	2000KPAG	1
480ZING	1	760MMHGG	1	MPa	Res
inHg	Res	1600MMHGA	1	1.4MPAG	.001
6INHGG‡	.01	1600MMHGG	1	2MPAG	.001
	_				
10INHGG [‡]	.01	Torr	Res	3.5MPAG [†]	.01
30INHGA	.1	760TORRA	1	7MPAG	.01
30INHGVAC‡	.1	760TORRVAC‡	1	14MPAG	.01
±30INHGG‡	.1	1600TORRA	1	20MPAG	.01
30INHGG†	.1	mbar	Res	35MPAG†	.1
60INHGA	.1	200MBARG‡	.1	g/cm²	Res
60INHGG	.1	350MBARG [‡]	1	200GCMG [‡]	.1
120INHGG	.1	1000MBARA	1	350GCMG [‡]	1
200INHGA	.1	1000MBARVAC‡	1	1000GCMA	1
200INHGG	.1	±1000MBARG [‡]	1	1000GCMVAC [‡]	1
400INHGG		1000MBARG	— <u> </u>	±1000GCMG‡	1
	1		1		- 1
600INHGG	1	2000MBARA	1	1000GCMG	
1000INHGG			<u> </u>		1
IJUUINTUU	1	2000MBARG	1	2000GCMA	1
2000INHGG	1	2000MBARG bar			
2000INHGG	1	bar	1 Res	2000GCMA 2000GCMG	1
2000INHGG atm	1 Res	bar 1BARA	1 Res .001	2000GCMA 2000GCMG kg/cm ²	1 1 Res
2000INHGG atm 1ATMA	1 Res .001	bar 1BARA 1BARVAC‡	1 Res .001 .001	2000GCMA 2000GCMG kg/cm ² 1KGCMA	1 1 Res
2000INHGG atm 1ATMA 1ATMVAC‡	1 Res .001 .001	bar 1BARA 1BARVAC [‡] ±1BARG [‡]	1 Res .001 .001	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC‡	1 Res .001
2000INHGG atm 1ATMA	1 Res .001	bar 1BARA 1BARVAC‡	1 Res .001 .001	2000GCMA 2000GCMG kg/cm ² 1KGCMA 1KGCMVAC [‡] ±1KGCMG [‡]	1 1 Res
2000INHGG atm 1ATMA 1ATMVAC‡	1 Res .001 .001	bar 1BARA 1BARVAC [‡] ±1BARG [‡]	1 Res .001 .001	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC‡	1 Res .001
2000INHGG atm 1ATMA 1ATMVAC‡ ±1ATMG‡	1 Res .001 .001 .001	bar 1BARA 1BARVAC [‡] ±1BARG [‡] 1BARG 2BARA	1 Res .001 .001 .001 .001	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC‡ ±1KGCMG‡	1 Res .001 .001 .001
2000INHGG atm 1ATMA 1ATMVAC‡ ±1ATMG‡ 1ATMG 2ATMA	1 Res .001 .001 .001 .001	bar 1BARA 1BARVAC‡ ±1BARG‡ 1BARG 2BARA 2BARG	1 Res .001 .001 .001 .001 .001	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC‡ ±1KGCMG‡ 1KGCMG	1 Res .001 .001 .001 .001
2000INHGG atm 1ATMA 1ATMVAC* ±1ATMG* 1ATMG 2ATMA 2ATMG	1 Res .001 .001 .001 .001 .001	bar 1BARA 1BARVAC† ±1BARG† 1BARG 2BARA 2BARG 4BARG	1 Res .001 .001 .001 .001 .001	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC‡ ±1KGCMG 1KGCMG 2KGCMA 2KGCMA	1 Res .001 .001 .001 .001
2000INHGG atm 1ATMA 1ATMVAC* ±1ATMG* 1ATMG 2ATMA 2ATMG 4ATMG	1 Res .001 .001 .001 .001 .001 .001	bar 1BARA 1BARVAC‡ ±1BARG‡ 1BARG 2BARA 2BARG 4BARG 7BARA	1 Res .001 .001 .001 .001 .001 .01 .01	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC‡ ±1KGCMG 1KGCMG 2KGCMA 2KGCMA 4KGCMG	1 Res .001 .001 .001 .001 .001
2000INHGG atm 1ATMA 1ATMVAC* ±1ATMG* 1ATMG 2ATMA 2ATMG 4ATMG 7ATMA	1 Res .001 .001 .001 .001 .001	bar 1BARA 1BARVAC‡ ±1BARG‡ 1BARG 2BARA 2BARG 4BARG 7BARA 7BARG	1 Res .001 .001 .001 .001 .001	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC‡ ±1KGCMG 2KGCMA 2KGCMA 4KGCMG 7KGCMA	1 Res .001 .001 .001 .001
2000INHGG atm 1ATMA 1ATMVAC* ±1ATMG* 1ATMG 2ATMA 2ATMG 4ATMG	1 Res .001 .001 .001 .001 .001 .001	bar 1BARA 1BARVAC‡ ±1BARG‡ 1BARG 2BARA 2BARG 4BARG 7BARA	1 Res .001 .001 .001 .001 .001 .01 .01	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC‡ ±1KGCMG 1KGCMG 2KGCMA 2KGCMA 4KGCMG	1 Res .001 .001 .001 .001 .001
2000INHGG atm 1ATMA 1ATMYAC* ±1ATMG* 1ATMG 2ATMA 2ATMA 2ATMG 4ATMG 7ATMA	1 Res .001 .001 .001 .001 .001 .01 .01	bar 1BARA 1BARVAC‡ ±1BARG† 1BARG 2BARA 2BARG 4BARG 7BARA 7BARG 14BARG	1 Res .001 .001 .001 .001 .001 .01 .01 .01	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC³ ±1KGCMG² 1KGCMG 2KGCMA 2KGCMG 4KGCMG 7KGCMA	1 Res .001 .001 .001 .001 .001 .01 .01
2000INHGG atm 1ATMA 1ATMVAC* ±1ATMG* 1ATMG 2ATMA 2ATMG 4ATMG 7ATMA 7ATMG 14ATMG	1 Res .001 .001 .001 .001 .001 .01 .01 .01	bar 1BARA 1BARVAC‡ ±1BARG‡ ±1BARG 2BARA 2BARG 4BARG 7BARA 7BARG 14BARG 20BARG	1 Res .001 .001 .001 .001 .001 .01 .01 .01	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC³ 1KGCMG 2KGCMG 2KGCMA 2KGCMG 4KGCMG 7KGCMG 14KGCMG	1 1 Res .001 .001 .001 .001 .01 .01
2000INHGG	1 Res .001 .001 .001 .001 .01 .01 .01 .01	bar 1BARA 1BARVAC† ±1BARG† ±BARG 2BARA 2BARG 4BARG 7BARA 7BARG 14BARG 20BARG 35BARG†	1 Res .001 .001 .001 .001 .001 .01 .01 .01 .0	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC³ 1KGCMG 2KGCMG 4KGCMG 4KGCMG 7KGCMA 7KGCMG 14KGCMG	1 1 Res .001 .001 .001 .001 .01 .01 .01
2000INHGG atm 1ATMA 1ATMVAC† ±1ATMG 2ATMG 2ATMA 2ATMG 4ATMG 7ATMA 7ATMG 14ATMG 20ATMG 34ATMG†	1 Res .001 .001 .001 .001 .001 .01 .01 .01 .0	bar 1BARA 1BARVAC† ±1BARG† 1BARG 2BARA 2BARG 4BARG 7BARA 7BARG 14BARG 20BARG 35BARG† 70BARG	1 Res .001 .001 .001 .001 .001 .01 .01 .01 .0	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC³ ±1KGCMG 2KGCMG 4KGCMG 4KGCMG 7KGCMA 1KGCMG 2KGCMG 4KGCMG 3KGCMG	1 1 Res .001 .001 .001 .001 .01 .01 .01 .01
2000INHGG	1 Res .001 .001 .001 .001 .01 .01 .01 .01	bar 1BARA 1BARVAC† ±1BARG† ±BARG 2BARA 2BARG 4BARG 7BARA 7BARG 14BARG 20BARG 35BARG†	1 Res .001 .001 .001 .001 .001 .01 .01 .01 .0	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC³ 1KGCMG 2KGCMG 4KGCMG 4KGCMG 7KGCMA 7KGCMG 14KGCMG	1 1 Res .001 .001 .001 .001 .01 .01 .01
2000INHGG atm 1ATMA 1ATMVAC† ±1ATMG 2ATMG 2ATMA 2ATMG 4ATMG 7ATMA 7ATMG 14ATMG 20ATMG 34ATMG†	1 Res .001 .001 .001 .001 .001 .01 .01 .01 .0	bar 1BARA 1BARVAC† ±1BARG† 1BARG 2BARA 2BARG 4BARG 7BARA 7BARG 14BARG 20BARG 35BARG† 70BARG	1 Res .001 .001 .001 .001 .01 .01 .01 .01 .1 .1	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC³ ±1KGCMG 2KGCMG 4KGCMG 4KGCMG 7KGCMA 1KGCMG 2KGCMG 4KGCMG 3KGCMG	1 1 Res .001 .001 .001 .001 .01 .01 .01 .01 .01
2000INHGG atm 1ATMA 1ATMVAC* ±1ATMG* 1ATMG 2ATMA 2ATMA 7ATMG 14ATMG 34ATMG* 7OATMG 140ATMG	1 Res .001 .001 .001 .001 .01 .01 .01 .01 .1 .1	bar 1BARA 1BARVAC† ±1BARG† 1BARG 2BARA 2BARG 4BARG 7BARA 7BARG 14BARG 20BARG 35BARG† 70BARG 140BARG 200BARG	1 Res .001 .001 .001 .001 .01 .01 .01 .01 .1 .1	2000GCMA 2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMYAC¹ ±1KGCMG² 1KGCMG 2KGCMG 4KGCMG 7KGCMG 14KGCMG 20KGCMG 7KGCMG 14KGCMG 14KGCMG 14KGCMG 14KGCMG 14KGCMG	1 1 Res .001 .001 .001 .001 .01 .01 .01 .01 .1
2000INHGG atm 1ATMA 1ATMVAC† ±1ATMG* 2ATMG 2ATMA 2ATMG 4ATMG 7ATMA 7ATMG 14ATMG 34ATMG† 7OATMG	1 Res .001 .001 .001 .001 .001 .01 .01 .01 .0	bar 1BARA 1BARVAC‡ ±1BARG‡ 1BARG 2BARA 2BARG 4BARG 7BARA 7BARG 14BARG 20BARG 35BARG† 70BARG 140BARG	1 Res .001 .001 .001 .001 .01 .01 .01 .01 .1 .1	2000GCMA 2000GCMG kg/cm² 1KGCMA 1KGCMVAC† ±1KGCMG 1KGCMG 4KGCMG 7KGCMA 7KGCMG 14KGCMG 7KGCMA 7KGCMG 2KGCMA 7KGCMG 14KGCMG 7KGCMG 1AKGCMG 7KGCMG 7KGCMG	1 1 Res .001 .001 .001 .001 .01 .01 .01 .01 .01

Accuracy

Accuracy includes linearity, hysteresis, repeatability

Standrd accuracy: ±0.25% of full scale ±1 least significant diait

HA accuracy option: ±0.1% FS ±1 LSD, see ranges for

availability ±0.015% FS, included in accuracy Sensor hysteresis: Sensor repeatability: ±0.01% FS, included in accuracy

3.5 digit LCD, 0.5" digit height (indicates to 1999) 3 readings per second nominal display update rate

Non-interactive zero and span, ±10% range Output test adjustment: 0-100% range Retransmission zero and span: Internal potentiometers

Loop Supply Voltage

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

Gauge is reverse polarity protected

3 ft long, 2-conductor 22 AWG cable with stripped and tinned

Use with API 9046-24 loop power supply

Output Characteristics

True analog output, 50 millisecond typical response time For proper operation gauge terminal voltage must be above 7.8 VDC at all times.

Test Function

Front panel TEST button, when depressed sets loop current and display to output test level, independent of pressure input, to allow testing of system operation.

Weight

9 ounces (approx.)

Shipping wt. 1 pound (approx.)

Housing

Standard: Epoxy powder coated aluminum case and rear cover. ABS/polycarbonate bezel. Front and rear rubber gaskets. Polycarbonate label.

NEMA 4X: UV stabilized ABS/polycarbonate case and rear cover. Gasketed rear cover with six captive stainless steel screws. Polycarbonate label.

Dimensions

Standard: 3.38" W x 2.88" H x 1.65" D housing NEMA 4X: 3.5" W x 3.0" H x 2.0" D housing Add approximately 0.75" to height for pressure fitting Add approx. 1" to depth for strain relief and wire clearance

Connection and Material

1/4" NPT male fitting

Sensor and all wetted parts are 316L stainless steel

Overpressure

Ranges using 3000 psig sensor: 5000 psig Ranges using 5000 psig sensor: 7500 psig

2 X pressure range Vacuum service: ± 15 psig, 15 psig, 30 psia, 100 psig, 100

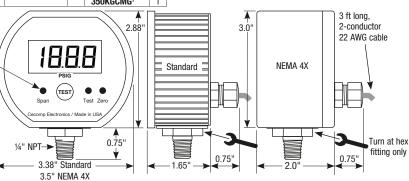
psia, 200 psig sensors

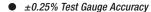
Burst Pressure

4 X sensor pressure rating, or 10,000 psi, whichever is less

Environmental

Storage Temperature: -40 to 203°F (-40 to 95°C) Operating Temperature: -4 to 185°F (-20 to 85°C) 32 to 158°F (0 to 70°C) Compensated Temperature:





- 316 Stainless Steel Wetted Parts
- 4-20 mA Analog Output
 - **Output Test Function**







How to Specify	Туре
DPG1000L range - options	Standard housing
F4L range - options	NEMA 4X housing

Kange —see table :	at iert	
psi = PSI	torr = TORR	mbar = MBAR
inHg = INHG	$mmH_2O = MMH2O$	bar = BAR
$oz/in^2 = ZIN$	$kg/cm^2 = KGCM$	$cmH_2O = CMH2O$
$inH_2O = INH2O$	$g/cm^2 = GCM$	atm = ATM
CILLO ETUDO	I.D. I/DA	

 $ftH_2O = FTH2O$ kPa = KPAmmHg = MMHGMPa = MPA

G = gauge reference pressure VAC = gauge reference vacuum A = absolute reference

Range codes listed as 2, 20, 200, or 2000 display 1.999, 19.99, 199.9, or 1999 respectively.

If vacuum gauge requires a minus sign, please specify.

Options-	—add to end of model number
НА	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
Accesso	ries—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.





Potentiometer-

nvlon screws

with o-rings

covers (3) Standard: plastic caps NEMA 4X:





BSOLUTE PROCESS INSTRUMENTS, Inc.





Types of Gauges

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

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

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

Precautions

- Read these instructions before using the gauge. 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.
- Avoid permanent sensor damage! NEVER insert objects into gauge port or blow out with compressed air.
- NEVER connect the gauge wires directly to 115 VAC or permanent damage will result.

Description

All operating power is supplied by the 4-20 mA current loop. The 2-wire connection allows the DPG1000L and F4L to be used as an indicating transmitter in any 4-20 mA current loop application or as a DC powered gauge.

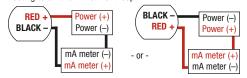
The output is a continuous analog signal based on the transducer output rather than the display. The output is filtered to improve noise immunity and has a response time of about 50 msec. The temperature compensated piezoresistive transducer features 316 stainless steel wetted parts.

The TEST button, when depressed, switches the display and output loop to a preset level determined by the setting of a Test potentiometer. This is useful for testing the 4-20 mA output signal without having to alter system pressure.

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

Electrical Connection

Connection to the DPG1000L or F4L is made with the 2-wire cable at the gauge rear. Reversing the connections will not harm the gauge but the DPG1000L and F4L will not operate with incorrect polarity. See the wiring examples below for connecting to a 4-20 mA current loop.



If the 4-20 mA analog output is not required, the transmitter will function as a low voltage powered pressure gauge when connected to any 8 to 32 VDC power supply. Connect the loop (+) supply to the RED lead and the loop (-) supply to the BLACK lead.



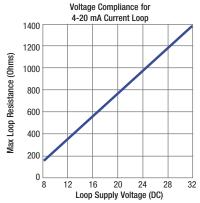
Loop Voltage

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 and not exceed 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)

If the terminal voltage of the gauge falls below about 7.8 VDC, erratic operation may occur. This is an indication that the loop supply/resistance may not allow adequate headroom for reliable operation. This should never occur in normal use. If it does, examine the loop supply/resistance.



Operation

The DPG1000L and F4L are designed for continuous operation. Warm-up time is negligible. The display will show the system pressure or vacuum, and the loop current also will be proportional to the system pressure/vacuum.

Sensor	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
Absolute reference	4 mA	4 mA	20 mA
Bipolar ±	4 mA	12 mA	20 mA

Test Function

When the front-panel TEST button is held depressed, the display and loop current are switched, independent of the system pressure, to a test level determined by the setting of the Test potentiometer. This test mode will allow setup and testing of the current loop by switching to this test level whenever desired without having to alter the system pressure.

To set the test output level, see gauge label for location of Test potentiometer. Press and hold the front-panel TEST button and adjust the Test potentiometer to set the display and loop current to the desired test level.

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 qualified 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 quality 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. Warning: application of vacuum to non-vacuum models may result in irreparable damage to the sensor.

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 (about 20 minutes minimum) before calibration.

Calibration

- 1. See rear label of gauge for pressure range.
- Remove the covers on the Zero and Span controls on the front of the gauge.
- Loop-powered gauges must be connected to 9-32 VDC during the calibration procedure. The supply voltage has negligible effects on the gauge calibration as long as it is within the stated voltage ranges. Over voltage may result in damage.
- 4. Internal Zero and Span potentiometers adjust the agreement between the display and the analog output. These normally do not need to be adjusted. If the output does need adjustment, remove the rear cover to access the potentiometers. See image below.
- Zero for gauge reference pressure or vacuum gauges: With the gauge port open to atmosphere, adjust the Zero potentiometer for a display indication of zero. Output should be 4 0 milliams
- Zero for absolute reference gauges: Apply full vacuum to the gauge. Adjust the Zero potentiometer for a display indication of zero. Output should be 4.0 milliamps.
- Span for gauge reference pressure gauges and absolute reference gauges: Apply full-scale pressure and adjust the Span potentiometer for a display indication equal to fullscale pressure. Output should be 20.0 milliamps.
- Span for gauge reference vacuum gauges: Apply full vacuum to the gauge. Adjust the Span potentiometer for a display indication equal to full-scale vacuum. Output should be 20.0 milliamps.
- Verify pressure indications at 0%, 25%, 50%, 75%, and 100% of full scale and repeat calibration as needed to achieve best accuracy over desired operating range.
- Replace the potentiometer covers, rear cover and screws, taking care not to pinch the wires between the case and the rear cover.





