

700G Series

Pressure Gauge

Calibration Manual

April 2012

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Introduction

The 700G Series Pressure Gauges (the Product) are high-accuracy digital pressure test gauges. Accurate to 0.05 % FS, the Products can be used as a calibration reference or in any application where high-accuracy pressure measurement is necessary.

The Product features user-configurable functions that include:

- Sampling rate
- Tare
- Damping
- Auto off
- Min Max

When the Product is configured, you can lock its settings and use password protection to prevent configuration changes.

How to Contact Fluke

To contact Fluke, call one of the following telephone numbers:

- Technical Support USA: 1-800-44-FLUKE (1-800-443-5853)
- Calibration/Repair USA: 1-888-99-FLUKE (1-888-993-5853)
- Canada: 1-800-36-FLUKE (1-800-363-5853)
- Europe: +31 402-675-200
- Japan: +81-3-6714-3114
- Singapore: +65-6799-5566
- Anywhere in the world: +1-425-446-5500

Or, visit Fluke's website at www.fluke.com.

To register your product, visit <http://register.fluke.com>.

To view, print, or download the latest manual supplement, visit <http://us.fluke.com/usen/support/manuals>.

Safety Information

A **Warning** identifies conditions and procedures that are dangerous to the user. A **Caution** identifies conditions and procedures that can cause damage to the Product or the equipment under test.

Warning

To prevent possible electrical shock, fire, or personal injury:

- Use the Product only as specified, or the protection supplied by the Product can be compromised.
- The battery door must be closed and locked before you operate the Product.
- Replace the batteries when the low battery indicator (🔋) shows to prevent incorrect measurements.
- Do not use and disable the Product if it is damaged.
- Read all safety Information before you use the Product.
- Do not use the Product in damp or wet environments.

Caution



To prevent possible damage to Product or to equipment under test:


- If the display reads “OL” the range limit is exceeded and the pressure source must immediately be removed.
- Do not exceed the maximum torque allowed. Maximum torque allowed is 13,5 Nm = 10 ft lb.

Hazard Location Information/Approvals

Ex-Hazardous Areas

An Ex-hazardous area as used in this manual refers to an area made hazardous by the potential presence of flammable or explosive vapors. These areas are also referred to as hazardous locations, see NFPA 70 Article 500.

  [®] LR110460
Class I, Div. 2, Groups A-D

 II 3 G Ex nA IIB T6
KEMA 06ATEX0014 X
Ta=−10 °C... +55 °C

Special Conditions for Safe Use

Misuse

If the Product is exposed to overpressure or sudden physical shock (such as being dropped) examine it for any damage that can cause a safety concern. If necessary, return the Product for evaluation to Fluke. Refer to the How to Contact Fluke section.

⚠ Warning









To prevent possible fire, or personal injury:

- **Do not use the Product with flammable substances.**
- **The Product is intended for installation only in locations providing adequate protection against the entry of solid foreign objects or water capable of impairing safety.**

Symbols

Symbols used on the Product and in this manual are explained in Table 1.

Table 1. Symbols

Symbol	Meaning	Symbol	Meaning
	Risk of danger. Important information. See manual.		Conforms to European Union directives.
	Hazardous voltage. Risk of electrical shock.		Conforms to relevant North American Safety Standards.
	Pressure		Do not dispose of this product as unsorted municipal waste. Go to Fluke's website for recycling information.
	Conforms to relevant Australian standards.		Conforms to ATEX requirements

Specifications

Available Input Ranges

See PI Ranges and Resolution for available ranges in psi plus equivalent ranges and resolution for all engineering units.

Accuracy

Positive Pressure.....	±0.05 % FS
Vacuum	±0.1 % FS
Temperature Compensation	15 °C to 35 °C (59 °F to 95 °F) to rated accuracy

Note: For temperatures from -10 °C to 15 °C and 35 °C to 55 °C, add .003 % FS/°C

Media Compatibility

15, 30 psi	any clean dry non-corrosive gas
100, 300, 500, 1000 psi	any liquids or gases compatible with 316 stainless steel
Above 1000 psi.....	any non-flammable, non-toxic, non- explosive, non-oxidizing liquid or gas compatible with 316 stainless steel.

Environmental

Operating Temperature.....	-10 °C to +55 °C (14 °F to 131 °F)
Storage	-20 °C to +70 °C (-4 °F to +158 °F)
Humidity	10 % to 95 % RH Non-condensing
Pollution Degree	2
Altitude.....	3000 m maximum operating altitude
Agency Approvals.....	CE, N10140, IEC, Ex

Mechanical Specifications

Dimensions	11.4 x 12.7 (cm), depth = 3.7 cm (4.5 x 5 (in), depth= 1.5 in)
------------------	---

Pressure

Connection	¼ in NPT Male
Housing	Cast ZNAl

Display

5-1/2 Digits, 16.53 mm (0.65 in) high
20-Segment bar graph, 0 to 100 %

Power

Battery	three size AA alkaline batteries
Battery Life	1,500 hours without backlight (continuous on), 2,000 hours at slow sample rate

Ranges and Resolution

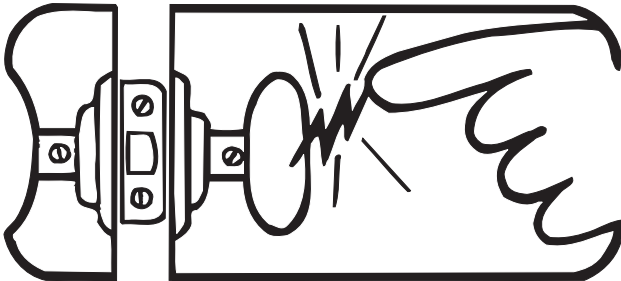
Model Number		700G04	700G05	700G06	700G27	700G07	700G08	700G29	700G30	700G31
Pressure Range		15	30	100	300	500	1000	3000	5000	10000
Vacuum Range		-14	-14	-12	-12	-12	-14	-14	-14	-14
Burst Pressure		45	90	1000	2000	2000	10000	10000	10000	15000
Proof Pressure		30	60	200	600	1000	2000	6000	10000	15000
Engineering Unit	Factor									
psi	1	15.000	30.000	100.00	300.00	500.00	1000.0	3000.0	5000.0	10000
bar	0.06894757	1.0342	2.0684	6.8948	20.684	34.474	68.948	206.84	344.74	689.48
mbar	68.94757	1034.2	2068.4	6894.8	20684	34474	68948	*	*	*
kPa	6.894757	103.42	206.84	689.48	2068.4	3447.4	6894.8	20684	34474	68948
Mpa	0.006894757	0.1034	0.2068	0.6895	2.0684	3.4474	6.8948	20.684	34.474	68.948
kg/cm2	0.07030697	1.0546	2.1092	7.0307	21.092	35.153	70.307	210.92	351.53	703.07
mmHg @ 0 °C	51.71507	775.73	1551.5	5171.5	15515	25858	51715	*	*	*
inHg @ 0 °C	2.03603	30.540	61.081	203.60	610.81	1018.0	2036.0	6108.1	10180	20360
cmH2O @ 4 °C	70.3089	1054.6	2109.3	7030.9	21093	35154	70309	*	*	*
cmH2O @ 20 °C	70.4336	1056.5	2113.0	7043.4	21130	35217	70434	*	*	*
mmH2O @ 4 °C	703.089	10546	21093	70309	*	*	*	*	*	*
mmH2O @ 20 °C	704.336	10565	21130	70434	*	*	*	*	*	*
mH2O @ 4 °C	0.703089	10.546	21.093	70.309	210.93	351.54	703.09	2109.3	3515.4	7030.9
mH2O @ 20 °C	0.704336	10.565	21.130	70.434	211.30	352.17	704.34	2113.0	3521.7	7043.4
inH2O @ 4 °C	27.68067	415.21	830.42	2768.1	8304.2	13840	27681	83042	*	*
inH2O @ 20 °C	27.72977	415.95	831.89	2773.0	8318.9	13865	27730	83189	*	*
inH2O @ 60 °F	27.70759	415.61	831.23	2770.8	8312.3	13854	27708	83123	*	*
ftH2O @ 4 °C	2.306726	34.601	69.202	230.67	692.02	1153.4	2306.7	6920.2	11534	23067
ftH2O @ 20 °C	2.310814	34.662	69.324	231.08	693.24	1155.4	2310.8	6932.4	11554	23108
ftH2O @ 60 °F	2.308966	34.634	69.269	230.90	692.69	1154.5	2309.0	6926.9	11545	23090
ft Sea Water	2.24719101	33.708	67.416	224.72	674.16	1123.6	2247.2	6741.6	11236	22472
m Sea Water	0.68494382	10.274	20.548	68.494	205.48	342.47	684.94	2054.8	3424.7	6849.4
Torr	51.71507	775.73	1551.5	5171.5	15515	25858	51715	*	*	*



static awareness



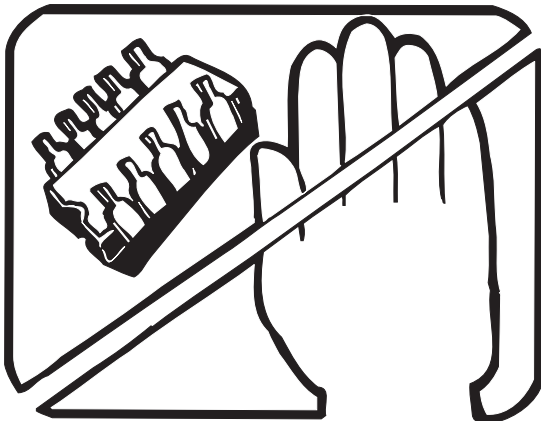
A Message From
Fluke Corporation



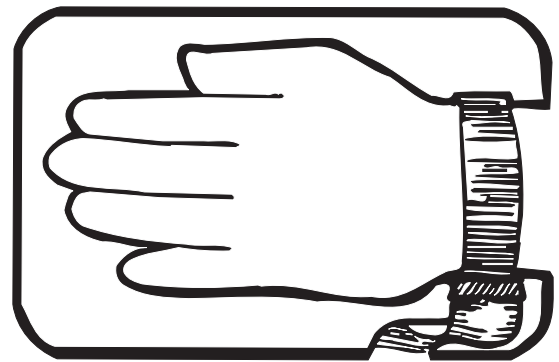
Some semiconductors and custom IC's can be damaged by electrostatic discharge during handling. This notice explains how you can minimize the chances of destroying such devices by:

1. Knowing that there is a problem.
2. Learning the guidelines for handling them.
3. Using the procedures, packaging, and bench techniques that are recommended.

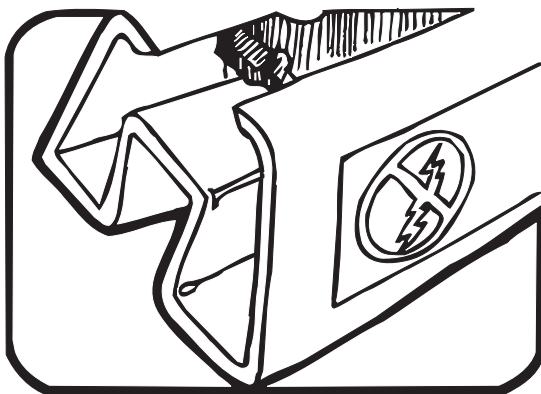
The following practices should be followed to minimize damage to S.S. (static sensitive) devices.



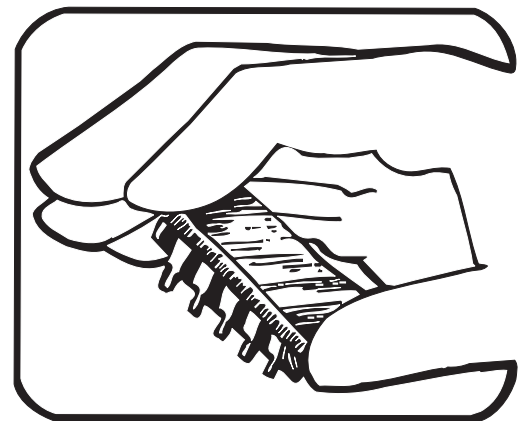
1. MINIMIZE HANDLING



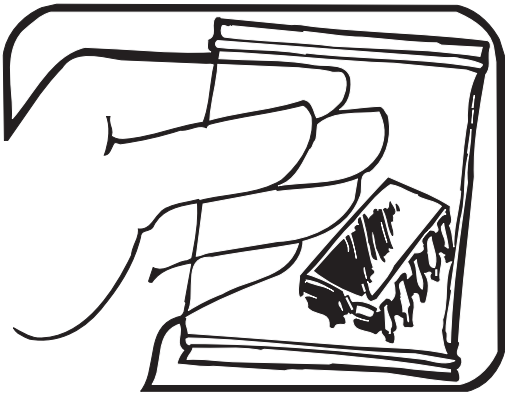
3. DISCHARGE PERSONAL STATIC BEFORE HANDLING DEVICES. USE A HIGH RESISTANCE GROUNDING WRIST STRAP.



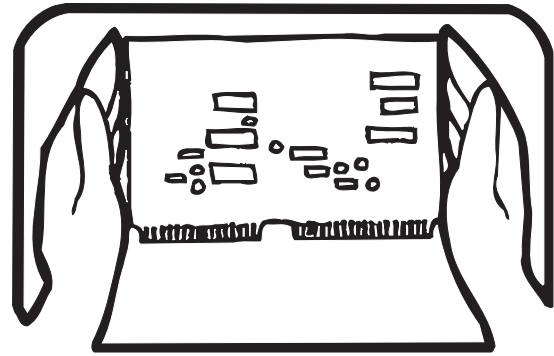
2. KEEP PARTS IN ORIGINAL CONTAINERS UNTIL READY FOR USE.



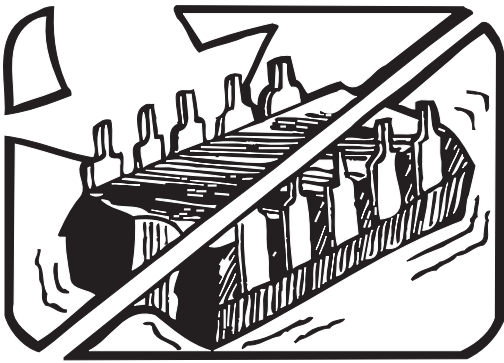
4. HANDLE S.S. DEVICES BY THE BODY.



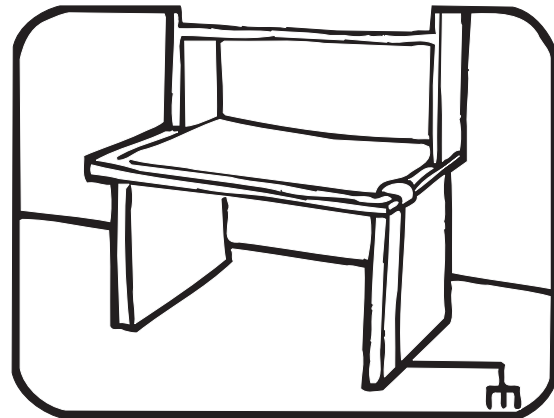
5. USE STATIC SHIELDING CONTAINERS FOR HANDLING AND TRANSPORT.



8. WHEN REMOVING PLUG-IN ASSEMBLIES HANDLE ONLY BY NON-CONDUCTIVE EDGES AND NEVER TOUCH OPEN EDGE CONNECTOR EXCEPT AT STATIC-FREE WORK STATION. PLACING SHORTING STRIPS ON EDGE CONNECTOR HELPS PROTECT INSTALLED S.S. DEVICES.



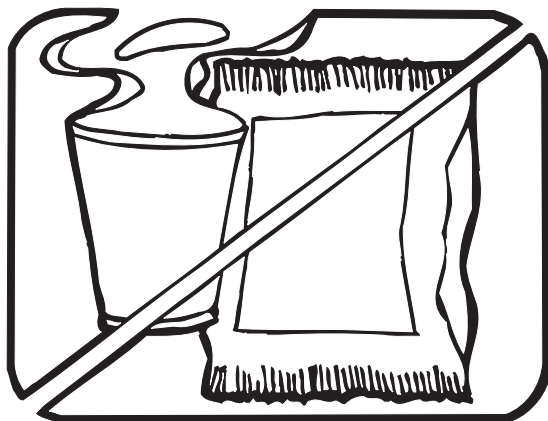
6. DO NOT SLIDE S.S. DEVICES OVER ANY SURFACE.



9. HANDLE S.S. DEVICES ONLY AT A STATIC-FREE WORK STATION.

10. ONLY ANTI-STATIC TYPE SOLDER-SUCKERS SHOULD BE USED.

11. ONLY GROUNDED-TIP SOLDERING IRONS SHOULD BE USED.



7. AVOID PLASTIC, VINYL AND STYROFOAM® IN WORK AREA.

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Maintenance

How to Clean the Product

Clean the Product with a soft cloth dampened with water or water and weak soap.

⚠ Caution

To prevent possible damage to the Product, do not use solvents or abrasive cleansers.

⚠ Caution

For safe operation and maintenance of the product:

- Repair the Product before use if the battery leaks.
- Remove batteries to prevent battery leakage and damage to the Product if it is not used for an extended period.
- Be sure that the battery polarity is correct to prevent battery leakage.
- Have an approved technician repair the Product.

How to Change the Batteries

⚠⚠ Warning

To prevent possible electrical shock, fire, or personal injury, batteries must only be changed in an area known to be non-hazardous. Explosion hazard.

To change the batteries, see Figure 1:

1. Remove the Product holster.
2. Use a Phillips screwdriver to loosen the captive screw on the battery door.
3. Remove the battery door.
4. Replace the three AA batteries.
5. Install the battery door again.
6. Tighten the captive screw.
7. Put the Product back into the holster.

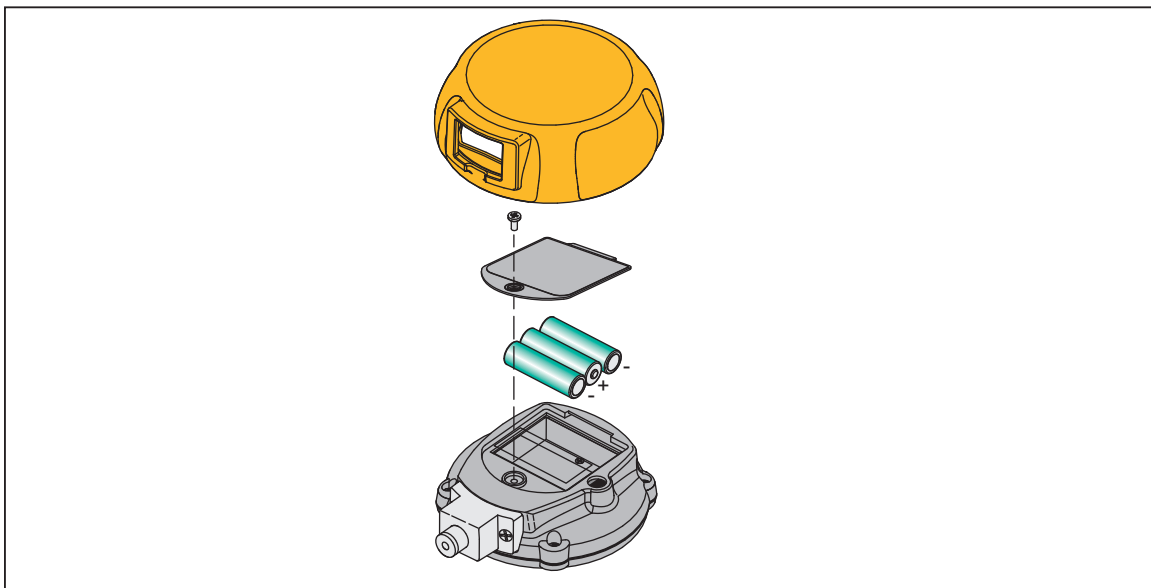


Figure 1. How to Change the Batteries

gvw002.eps

Performance Verification Tests

Fluke recommends certification each year. To re-certify, do the verification procedure. If test points are out of tolerance, calibrate the Product and then re-verify. Use the subsequent tests to make sure that the Product is in its specification limits.

Required Equipment

The equipment necessary for verification of the Product is shown in Table 2. If these instruments are not available, you can replace them with other instruments that have the same minimal specification requirements.

Table 2. Equipment Required for Verification

Equipment	Minimum Specification	Recommended Model
Dead Weight Tester	-14 to 10,000 psig Accuracy: 0.012 % of Range	Pressurement P3000, P3100

How to Verify Pressure

For each procedure there is a table of test points and permitted Product indications. If the result of the test is not in the range shown, the Unit Under Test (UUT) is out of tolerance and must be calibrated or repaired. For Product support, see the “How to Contact Fluke” section.

Follow these general instructions for all the tests:

- Make sure the battery is fully charged.
 - Let the verification equipment warm-up for its specified time.
 - For each test, make sure the verification equipment is stable and that the “unsettled” annunciator on the UUT is not shown.
1. Carefully attach the pressure fitting of the deadweight tester to the pressure port of the UUT.

Note

Use plenty of TEFLON tape when you attach the pressure fitting.

The display reads **0.00 PSI** with the deadweight tester opened to ambient air. If it does not, push **ZERO** until the display shows **0.00 PSI**.

2. Set up the deadweight tester for the sequence of psi inputs from Table 3. These inputs will be put into the pressure port of the UUT.
3. Make sure the pressure has become stable at each input before you verify the display indication.
4. Apply the inputs from Table 3.
5. Carefully vent all pressure and disconnect the UUT from the deadweight tester.

Table 3. Verification Points (In PSI)

700G04 15 PSI			700G05 30 PSI		
Input Pressure	Lower Limit	Upper Limit	Input Pressure	Lower Limit	Upper Limit
15.000	14.993	15.008	30.000	29.985	30.015
14.000	13.993	14.008	28.125	28.110	28.140
12.000	11.993	12.008	24.000	23.985	24.015
9.750	9.743	9.758	19.500	19.485	19.515
7.500	7.493	7.508	15.250	15.235	15.265
5.500	5.493	5.508	11.000	10.985	11.015
3.250	3.243	3.258	6.750	6.735	6.765
1.250	1.243	1.258	2.500	2.485	2.515
0.000	-0.008	0.008	0.000	-0.015	0.015
-5.000	-5.015	-4.985	-5.000	-5.030	-4.970
-10.000	-10.015	-9.985	-10.000	-10.030	-9.970
-14.000*	-14.015	-13.985	-14.000*	-14.030	-13.970
700G06 100 PSI			700G27 300 PSI		
Input Pressure	Lower Limit	Upper Limit	Input Pressure	Lower Limit	Upper Limit
100.00	99.95	100.05	300.00	299.85	300.15
93.75	93.70	93.80	281.25	281.10	281.40
81.25	81.20	81.30	243.75	243.60	243.90
68.75	68.70	68.80	206.25	206.10	206.40
56.25	56.20	56.30	168.75	168.60	168.90
43.75	43.70	43.80	131.25	131.10	131.40
31.25	31.20	31.30	93.75	93.60	93.90
18.75	18.70	18.80	56.25	56.10	56.40
6.25	6.20	6.30	18.75	18.60	18.90
0.00	-0.05	0.05	0.00	-0.15	0.15
-6.00	-6.10	-5.90	-6.00	-6.30	-5.70
-12.00*	-12.10	-11.90	-12.00*	-12.30	-11.70

Table 3. Verification Points (In PSI) (cont.)

700G07 500 PSI			700G08 1000 PSI		
Input Pressure	Lower Limit	Upper Limit	Input Pressure	Lower Limit	Upper Limit
500.00	499.75	500.25	1000.0	999.5	1000.5
468.75	468.50	469.00	937.5	937.0	938.0
406.25	406.00	406.50	812.5	812.0	813.0
343.75	343.50	344.00	687.5	687.0	688.0
281.25	281.00	281.50	562.5	562.0	563.0
218.75	218.50	219.00	437.5	437.0	438.0
156.25	156.00	156.50	312.5	312.0	313.0
93.75	93.50	94.00	187.5	187.0	188.0
31.25	31.00	31.50	62.5	62.0	63.0
0.00	-0.25	0.25	0.0	-0.5	0.5
-6.00	-6.50	-5.50			
-12.00*	-12.50	-11.50			
700G29 3000 PSI			700G30 5000 PSI		
Input Pressure	Lower Limit	Upper Limit	Input Pressure	Lower Limit	Upper Limit
3000.0	2998.5	3001.5	5000.0	4997.5	5002.5
2812.5	2811.0	2814.0	4687.5	4685.0	4690.0
2437.5	2436.0	2439.0	4062.5	4060.0	4065.0
2062.5	2061.0	2064.0	3437.5	3435.0	3440.0
1687.5	1686.0	1689.0	2812.5	2810.0	2815.0
1312.5	1311.0	1314.0	2187.5	2185.0	2190.0
937.5	936.0	939.0	1562.5	1560.0	1565.0
562.5	561.0	564.0	937.5	935.0	940.0
187.5	186.0	189.0	312.5	310.0	315.0
0.0	-1.5	1.5	0.0	-2.5	2.5

Table 3. Verification Points (In PSI) (cont.)

700G31 10000 PSI		
Input Pressure	Lower Limit	Upper Limit
10000	9995	10005
9000	8995	9005
7500	7495	7505
6500	6495	6505
5500	5495	5505
4500	4495	4505
1500	1495	1505
500	495	505
0	-5	5
*At altitudes -14 psi or -12 psi may not be possible. Replace with a local near-vacuum point when necessary.		

Calibration Adjustment

Calibration adjustment is done electronically by internal software with the Product case closed. All calibration commands and adjustments are done with the keypad.

Eight calibration points are used in the adjustment. They go from full scale to zero at pressures that equal 100 %, 87.5 %, 75 %, 62.5 %, 50 %, 37.5 %, 25 %, 12.5 %, and 0 % of full scale plus vacuum.

Note

This is an ambient temperature calibration, and must be done at an ambient temperature of 23 °C ± 3 °C (72 °F ± 5 °F). Calibration out of this temperature range voids the temperature compensation software in the Product.

Test Equipment

For verification and calibration adjustment, pressure and/or vacuum standards that can make and show pressures from vacuum to the full-scale range of the UUT are necessary. A TUR standard of 4:1 or better is necessary to keep the Product at its specified accuracy.

Connections

The Product uses a ¼ inch NPT male connection in the pressure input port. Different adapters can be necessary to connect to the pressure standard. Always make sure the hose, tubing, and fittings. Have a rated working pressure at or above the pressure of the unit. It is also important that there be no leaks when you calibrate the Product. Use Teflon tape where necessary.

Enter Calibration Mode

After you have made the connections, turn on the power while you hold **CONFIG**. Use **▲** and **▼** to enter the password: **101** then push **ENTER**. If you went into calibration mode correctly, the display will show **CAL**. The pressure value shown will be the full-scale value of the Product. For Calibration points and their values, see Table 4.

Procedure Example

Note

This example uses a 700G07 Pressure Gauge (maximum pressure 500.00 psi). Apply the shown pressures necessary for your Product as shown in Table 4.

The Product will prompt you for the necessary pressure at each calibration point.

1. Use the pressure standard to output 500.00 psi (100 %). After the output is stable, push **ENTER** to continue. As the Product measures, the screen will show ————. When measurements are complete the screen will show the calibration value.
2. Use the pressure standard to output 437.50 psi (87.5 %). After the output is stable, push **ENTER** to continue. As the Product measures, the screen will show ————. When measurements are complete the screen will show the calibration value.
3. Use the Pressure Standard to output 375.00 psi (75 %). After the output is stable, push **ENTER** to continue. As the Product measures, the screen will show ————. When measurements are complete the screen will show the calibration value.
4. Use the Pressure Standard to output 312.50 psi (62.5 %). After the output is stable, push **ENTER** to continue. As the Product measures, the screen will show ————. When measurements are complete the screen will show the calibration value.
5. Use the Pressure Standard to output 250.00 psi (50 %). After the output is stable, push **ENTER** to continue. As the Product measures, the screen will show ————. When measurements are complete the screen will show the calibration value.
6. Use the Pressure Standard to output 187.50 psi (37.5 %). After the output is stable, push **ENTER** to continue. As the Product measures, the screen will show ————. When measurements are complete the screen will show the calibration value.
7. Use the Pressure Standard to output 125.00 psi (25 %). After the output is stable, push **ENTER** to continue. As the Product measures, the screen will show ————. When measurements are complete the screen will show the calibration value.
8. Use the Pressure Standard to output 62.50 psi (12.5 %). After the output is stable, push **ENTER** to continue. As the Product measures, the screen will show ————. When measurements are complete the screen will show the calibration value.
9. Use the Pressure Standard to output 0.00 psi. After the output is stable, push **ENTER** to continue. As the Product measures, the screen will show ————. When measurements are complete the screen will show the calibration value.

Note

Only some ranges use vacuum calibration. If your Product does not, then this step can be skipped and calibration is complete.

- Use the Pressure Standard to output -12.00 psi. After the output is stable, push **ENTER** to continue. As the Product measures, the screen will show **-----**. When the measurements are complete, a Product reset occurs and the Product turns off then turns on as usual.

Table 4. Calibration Points

	Model Number								
	700G04	700G05	700G06	700G27	700G07	700G08	700G29	700G30	700G31
Pressure Range (psi)	15	30	100	300	500	1000	3000	5000	10000
100 %	15.00	30.00	100.00	300.00	500.00	1000.0	3000.0	5000.0	10000
87.5 %	13.125	26.25	87.50	262.50	437.50	875.00	2625.0	4375.0	8750.0
75 %	11.25	22.50	75.00	225.00	375.00	750.00	2250.0	3750.0	7500.0
62.5 %	9.375	18.75	62.50	187.50	312.5	625.00	1875.0	3125.0	6250.0
50 %	7.50	15.00	50.00	150.00	250.00	500.00	1500.0	2500.0	5000.0
37.5 %	5.625	11.25	37.50	112.50	187.50	375.00	1125.0	1875.0	3750.0
25 %	3.75	7.50	25.00	75.00	125.00	250.00	750.00	1250.0	2500.0
12.5 %	1.875	3.75	12.50	37.50	62.50	125.00	375.00	625.00	1250.0
0 %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Serial Interface

Use terminal communication software on a PC to set up terminal communication. An RS-232 to USB cable is necessary. This cable comes with 700G/TRACK Software. Use these terminal parameters:

- Bits per second: 9600
- Data bits: 8
- Parity: None
- Stop bits: 1
- Flow control: None
- Local echo: on

List of Commands

Table 5 shows the commands that the Product uses to communicate. Send these commands from the PC to set up the Product or to take a measurement.

Table 5. Commands

Command	Description
CAL_START	Puts the calibrator in calibration mode
*CLS	Deletes the error queue
FAULT?	Shows an error code from the error queue
*IDN?	Identification query. Shows the manufacturer, model number, and firmware revision level of the calibrator
TARE	Tares the offset pressure of the measurement on the calibrator
TARE?	Shows the current tare value
PRES_UNIT?	Shows the pressure unit for the upper display
PRES_UNIT	Sets the pressure unit for the display
ZERO_MEAS	Zeros the pressure of the calibrator
ZERO_MEAS?	Shows the current zero offset value
MINMAX_RST	Resets the minimum and maximum recorded values
MIN?	Shows the minimum recorded value
MAX?	Shows the maximum recorded value
HC_OFF	Turns off the Product
HC_DFLT	Sets auto-off defaults
TEMP?	Shows temperature in the units that you choose
HC_COMP_OFF	Turns off temperature compensation
HC_COMP_ON	Turns on temperature compensation
HC_COMP?	Shows state of temperature compensation
HC_RD_2410?	Shows 2410 ADC counts
HC_SI_OFF	Turns off SI mode
HC_SI_ON	Turns on SI mode
CAL_STORE	Keeps calibration data
HC_AUTO_OFF	Turns off auto shutdown
HC_AUTO_ON	Turns on auto shutdown
CUST_MULT?	Sets the multiplier for the custom unit type
STREAM_OFF	Turns of streaming data
STREAM_ON	Turns on streaming data
HC_TEMP?	Same as TEMP?
VAL?	Shows the measured pressure value in selected units
HC_CMD_LIST	Prints a command list
TEMP_UNIT	Set a temperature unit
TEMP_UNIT?	Shows temperature unit

Parameter Units

The Product can be set to show the measurement units in Table 6.

Table 6. Measurement Units Used with Serial Port Commands

Units	Description
Psi	Pressure in pounds per square-inch
Bar	Pressure in bars
mBar	Pressure in millibars
Kg/cm2	Pressure in kilograms per centimeter squared
InH2O4C	Pressure in inches of water at 4 °C
InH2O20C	Pressure in inches of water at 20 °C
InH2O60F	Pressure in inches of water at 60 °F
mH2O4C	Pressure in meters of water at 4 °C
MH2O20C	Pressure in meters of water at 20 °C
cmH2O4C	Pressure in centimeters of water at 4 °C
cmH2O4C	Pressure in centimeters of water at 20 °C
MMH2O4C	Pressure in millimeters of water at 4 °C
MMH2O20C	Pressure in millimeters of water at 20 °C
MSW	Pressure in meters of salt water
ftH2O4C	Pressure in feet of water at 4 °C
ftH2O20C	Pressure in feet of water at 20 °C
ftH2O60F	Pressure in feet of water at 60 °F
FTSW	Pressure in feet of salt water
Inhg0C	Pressure in inches of mercury at 0 °C
mmhg0C	Pressure in millimeters of mercury at 0 °C
kpal	Pressure in kilopascals
MPAL	Pressure in mega Pascal
TORR	Pressure in Torr
CUST	Pressure in custom-defined units
Far	Temperature in Fahrenheit
Cel	Temperature in Celsius

Error Codes

A list of error codes are in Table 7.

Table 7. Error Codes

Error	Description
101	A non-numeric entry was received where a numeric entry is necessary
102	Too many significant digits entered
103	Invalid units or parameter value received
105	Entry is above the upper limit of the allowable range
106	Entry is below the lower limit of the allowable range
108	A required command parameter was missing
109	An invalid pressure unit was received
117	An unknown command was received
120	The serial input buffer overflowed
121	Too many entries in the command line
122	Pressure module not connected

Replacement Parts and Accessories

Table 8 lists the customer replaceable parts. Replacement parts can be ordered from Fluke Corporation and its approved representatives. Use the part number when you order the replacement part or accessory. See the “How to Contact Fluke” section.

Table 8. Replacement Parts and Accessories

Part Number	Description
4110667	FLUKE-700G, DECAL, FRONT
4110671	FLUKE-700G, DECAL, BACK
4110680	FLUKE-700G04, 15 PSI, MANIFOLD DECAL
4110698	FLUKE-700G05, 30 PSI, MANIFOLD DECAL
4110705	FLUKE-700G06, 100 PSI, MANIFOLD DECAL
4110710	FLUKE-700G27, 300 PSI, MANIFOLD DECAL
4110722	FLUKE-700G07, 500 PSI, MANIFOLD DECAL
4110731	FLUKE-700G08, 1000 PSI, MANIFOLD DECAL
4110746	FLUKE-700G29, 3000 PSI, MANIFOLD DECAL
4110754	FLUKE-700G30, 5000 PSI, MANIFOLD DECAL
4110768	FLUKE-700G31, 10000 PSI, MANIFOLD DECAL
4110779	FLUKE-700G, PRESSURE GAUGE, BOOT
4123225	Fluke 700G/TRACK Software and Serial Cable

