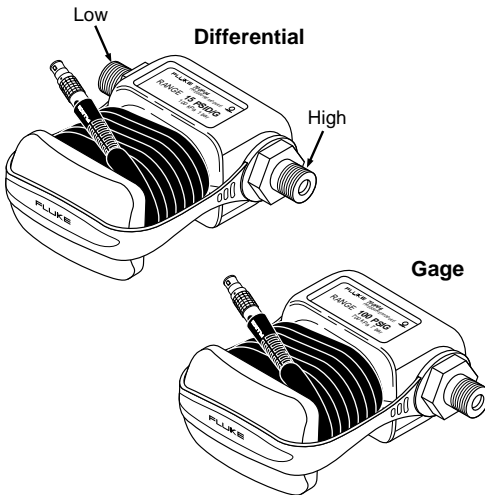


## 700 Series Pressure Modules

### Instruction Sheet



yz1f.eps

Figure 1.

### Introduction

The Fluke 700 Series Pressure Modules allow you to measure pressure with the Fluke 700 Series Process Calibrators. Read this sheet before you use the pressure module. This sheet contains specifications and information about how to avoid damaging the pressure module. See the Calibrator Users Manual for operating instructions.

The pressure module measures pressure using an internal microprocessor. It receives operating power from and sends digital information to the 700 Series calibrator.

Gage pressure modules have one pressure fitting and measure pressure with respect to atmospheric pressure. Differential pressure modules have two pressure fittings and measure the difference between the applied pressure on the high fitting versus the low fitting. Figure 1 shows the two types. A differential pressure module functions like a gage module when the low fitting is open.

### Compatibility of Pressure Modules with Fluke Process Calibrators

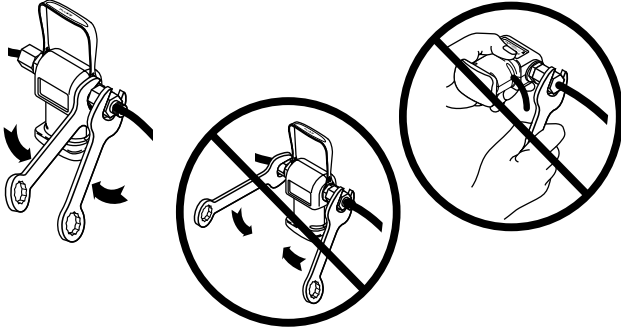
**Fluke-701, 702, 741, 743, and 744 Documenting Process Calibrators:** The Fluke-700P00 and P27 Pressure Modules are completely compatible with these calibrators.

**Fluke-716, 717, and 718 Pressure Calibrators:** The Fluke-700P00 and P27 Pressure Modules will display pressure readings correctly on 716 Pressure Calibrators with firmware V1.2 or higher, or 717 and 718 Pressure Calibrators with firmware V1.3 or higher. To view the software revision, power-on the calibrator while holding down the MAX key. Read the REV number in the display. Contact your Fluke Service Center for a free update of calibrators with lower revision numbers. Reference PCN 4647.

- Pressure module, strap, 1/4 NPT to 1/4 ISO metric adapters, instruction sheet.

### **Avoiding Mechanical Damage**

To avoid mechanically damaging the pressure module, never apply more than 10 ft.-lbs. of torque between the pressure module fittings or between the fittings and the body of the module. Always apply appropriate torque between the pressure module fitting and connecting fittings or adapters. Figure 2 shows the correct way and incorrect ways to use a wrench when applying torque to the pressure module fitting.



yz2f.eps

**Figure 2.**

### **Avoiding Corrosion Damage**

To avoid damaging the pressure module from corrosion, use it only with specified media as shown below:

- Isolated modules: any medium that is compatible with type 316 stainless steel.
- Nonisolated modules: dry, noncorrosive gasses only.

### **Recommended Measurement Technique**

For best results, it is recommended that the module be pressurized to full scale and then vented to zero pressure (atmosphere) prior to zeroing and making measurements with the calibrator.

#### *Note*

*Low range pressure modules may be sensitive to gravity. For best results, pressure modules 30 psi and below should be held at the same physical orientation from the time they are zeroed until the measurement is complete.*

### **Performance Test**

If you need to check that the pressure module meets its accuracy specification, use a dead weight tester or suitable pressure calibrator. The accuracy of the dead weight tester or pressure calibrator should be at least 4X better than the 700 Series pressure specification. Proceed as follows to verify that a pressure module is operating within specification:

1. Read the pressure value with no externally applied pressure to make sure the 0% of scale is correct. When reading the pressure with a 700 Series, press the ZERO key to remove any zero offset.
2. Connect the pressure module to a dead weight tester.
3. Set the dead weight tester to 20% of the pressure module's full scale value.
4. Make sure the reading agrees with the dead weight tester value within the Total Uncertainty specification in Table 1.
5. Set the dead weight tester to 40, 60, 80, and 100% of full scale and compare the respective readings.
6. If temperature sensitivity is of concern, repeat steps 1 through 5 at various controlled temperatures.

### **Pressure Calibration Kit**

The Fluke-700PCK Pressure Calibration Kit makes it possible to calibrate pressure modules at ambient temperature with a precision pressure calibrator or dead weight tester at least 4x better than the module specification. A 386 or better PC and Windows® 3.1 or better are required. The kit is an optional accessory available from your distributor or Fluke.

### **Certifications**

CE Conforms to European Standard EN61010-1, EN61326.

## **LIMITED WARRANTY & LIMITATION OF LIABILITY**

Each Fluke product is warranted to be free from defects in material and workmanship under normal use and service. The warranty period is one year and begins on the date of shipment. Parts, product repairs and services are warranted for 90 days. This warranty extends only to the original buyer or end-user customer of a Fluke authorized reseller, and does not apply to fuses, disposable batteries or to any product which, in Fluke's opinion, has been misused, altered, neglected or damaged by accident or abnormal conditions of operation or handling. Fluke warrants that software will operate substantially in accordance with its functional specifications for 90 days and that it has been properly recorded on non-defective media. Fluke does not warrant that software will be error free or operate without interruption.

Fluke authorized resellers shall extend this warranty on new and unused products to end-user customers only but have no authority to extend a greater or different warranty on behalf of Fluke. Warranty support is available if product is purchased through a Fluke authorized sales outlet or Buyer has paid the applicable international price. Fluke reserves the right to invoice Buyer for importation costs of repair/replacement parts when product purchased in one country is submitted for repair in another country.

Fluke's warranty obligation is limited, at Fluke's option, to refund of the purchase price, free of charge repair, or replacement of a defective product which is returned to a Fluke authorized service center within the warranty period.

To obtain warranty service, contact your nearest Fluke authorized service center or send the product, with a description of the difficulty, postage and insurance prepaid (FOB Destination), to the nearest Fluke authorized service center. Fluke assumes no risk for damage in transit. Following warranty repair, the product will be returned to Buyer, transportation prepaid (FOB Destination). If Fluke determines that the failure was caused by misuse, alteration, accident or abnormal condition of operation or handling, Fluke will provide an estimate of repair costs and obtain authorization before commencing the work. Following repair, the product will be returned to the Buyer transportation prepaid and the Buyer will be billed for the repair and return transportation charges (FOB Shipping Point).

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### ***In Case of Difficulty***

For service or calibration, call your nearest authorized Fluke Service Center. To contact Fluke call one of the following telephone numbers:

USA: 1-888-99-FLUKE (1-888-993-5853)

Canada: 1-800-36-FLUKE (1-800-363-5853)

Europe: +31 402-678-200

Japan: +81-3-3434-0181

Singapore: +65-738-5655

Anywhere in the world: +1-425-446-5500

Or, visit Fluke's Web site at [www.fluke.com](http://www.fluke.com).

Fluke Corporation      Fluke Europe B.V.

P.O. Box 9090      P.O. Box 1186

Everett, WA      5602 B.D. Eindhoven

98206-9090      The Netherlands

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С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
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- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)