

729/729 FC

Automatic Pressure Calibrator

Safety Information



3-Year Limited Warranty.

See the Users Manual for the full warranty.

Go to Fluke's website at www.fluke.com to read the User Manual and find more information about your Product.

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>.

A **Warning** identifies conditions and procedures that are dangerous to the user.

Warning

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

- **Read all safety information before you use the Product.**
- **Carefully read all instructions.**
- **Do not use the Product around explosive gas, vapor, or in damp or wet environments.**
- **Use the Product only as specified, or the protection supplied by the Product can be compromised.**
- **Do not apply more than the rated voltage, between the terminals or between each terminal and earth ground.**
- **Do not touch voltages >30 V ac rms, 42 V ac peak, or 60 V dc.**
- **Do not use the Product if it is altered or damaged.**
- **Disable the Product if it is damaged.**

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Specifications are subject to change without notification.

All product names are trademarks of their respective companies.








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- Do not use the Product if it operates incorrectly.
- Use the correct terminals, function, and range for measurements.
- Remove all probes, test leads, and accessories before the battery door is opened.
- The battery door must be closed and locked before you operate the Product.
- Use only the mains power cord and connector approved for the voltage and plug configuration in your country and rated for the Product.
- Replace the mains power cord if the insulation is damaged or if the insulation shows signs of wear.
- Examine the case before you use the Product. Look for cracks or missing plastic. Carefully look at the insulation around the terminals.
- Do not use test leads if they are damaged. Examine the test leads for damaged insulation, exposed metal, or if the wear indicator shows. Check test lead continuity.
- Keep fingers behind the finger guards on the probes.
- Only assemble and operate high-pressure systems if you know the correct safety procedures. High-pressure liquids and gases are hazardous and the energy from them can be released without warning.
- Remove the input signals before you clean the Product.
- Use only specified replacement parts.
- Have an approved technician repair the Product.
- Do not disassemble or crush battery cells and battery packs.
- Batteries contain hazardous chemicals that can cause burns or explode. If exposure to chemicals occurs, clean with water and get medical aid.
- Do not put battery cells and battery packs near heat or fire. Do not put in sunlight.
- Use only Fluke approved power adapters to charge the battery.
- Disconnect the battery charger and move the Product or battery to a cool, non-flammable location if the rechargeable battery becomes hot ($>50\text{ }^{\circ}\text{C}$) during the charge period.
- Replace the rechargeable battery after 5 years of moderate use or 2 years of heavy use. Moderate use is defined as recharged twice a week. Heavy use is defined as discharged to cutoff and recharged daily.
- Do not short the battery terminals together.


- Do not disassemble the battery.
- Pressure sensors can be damaged and/or personnel injury can occur due to improper application of pressure. Vacuum should not be applied to any gauge pressure sensor. The Product shows “OL” when an inappropriate pressure is applied. When “OL” is shown on any pressure, the pressure should be reduced or vented immediately to prevent Product damage or possible personnel injury. “OL” is shown when the pressure exceeds 110 % of the nominal range of the sensor or when a vacuum in excess of 2 psi is applied on gauge range sensors. Push **CLEAR (ZERO)** to zero the pressure sensor when vented to atmospheric pressure.
- Do not point the vent port toward the operator during venting.

Symbols

Symbol	Description
	WARNING. RISK OF DANGER.
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	Pressure
	Consult user documentation.
	This product contains a Lithium-ion battery. Do not mix with solid waste stream. Spent batteries should be disposed of by a qualified recycler or hazardous materials handler per local regulations. Contact your authorized Fluke Service Center for recycling information.
	China metrology certification mark for measuring instruments manufactured in the Peoples Republic of China (PRC).
	This product complies with the WEEE Directive marking requirements. The affixed label indicates that you must not discard this electrical/electronic product in domestic household waste. Product Category: With reference to the equipment types in the WEEE Directive Annex I, this product is classed as category 9 "Monitoring and Control Instrumentation" product. Do not dispose of this product as unsorted municipal waste.

Install the Fluke Connect® App

1



Fluke Connect
Fluke Corp. OPEN

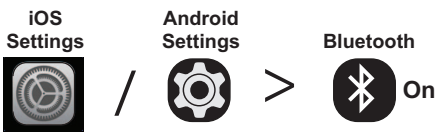
FLUKE

iOS

Android

Step 1 shows a smartphone displaying the Fluke Connect app page in an app store. To the right are icons for the App Store (iOS) and Google Play Store (Android), each accompanied by a QR code for scanning.


2



iOS Settings / Android Settings > Bluetooth On

Step 2 illustrates the required settings. It shows the 'Settings' icon for iOS, the 'Settings' gear icon for Android, and the 'Bluetooth' icon with the text 'On'.


3



Fluke Connect®

Step 3 shows the Fluke Connect app icon on a smartphone home screen. A hand icon points to the app icon, which is highlighted with a white box.

4



FLUKE 729

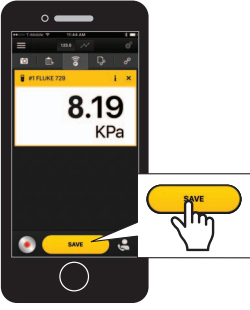
CONNECT

Looking for Fluke Connect

FLUKE 729

Step 4 shows the app's main interface. A hand icon points to a yellow bar at the top labeled 'FLUKE 729'. Below it, the text 'CONNECT' and 'Looking for Fluke Connect' is visible. A yellow bar at the bottom also displays 'FLUKE 729'.

5

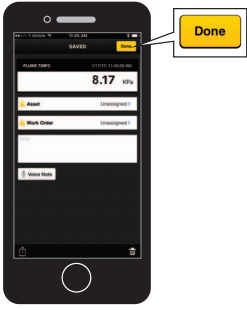


8.19 KPa

SAVE

Step 5 shows the app displaying a measurement of '8.19 KPa'. A hand icon points to a yellow 'SAVE' button at the bottom of the screen.

6



SAVED

Done

8.17 KPa

Step 6 shows the app displaying 'SAVED' at the top. A hand icon points to a yellow 'Done' button in the top right corner. Below, the measurement '8.17 KPa' is shown.

Safety Specifications

Environmental Specification

Operating Temperature

measurement	-10 °C to +50 °C
pressure control.....	0 °C to 50 °C
battery charging.....	0 °C to 40 °C

Storage Temperature -20 °C to +60 °C

Operating Altitude..... 3000 m

Storage Altitude..... 13 000 m

Operating Humidity..... Non condensing(<10 °C)
≤90 % RH (at 10 °C to 30 °C)
≤75 % RH (at 30 °C to 40 °C)
≤45 % RH (at 40 °C to 50 °C)

Electrical Specification

All specifications are valid to 110 % of range, except 24 mA source and simulate which are valid to 100 % of range.

Ranges

mA	0 mA to 24 mA
Volts	0 V dc to 30 V dc

Resolution

mA Ranges.....	1 μ A
Voltage Range.....	1 mV

Accuracy..... 0.01 % \pm 2 LSD all ranges (at 23 °C \pm 5 °C)

Safety

General.....	IEC 61010-1, Pollution Degree 2
Ingress Protection	IEC 61010-2-030: 30 V max IEC 60529: IP54 (with all port seals properly fitted)
Lithium Battery	IEC 62133, UN 38.3; 14.4 V, 6.7Ah, 97Wh, 4ICR19/66-2 (4s2p) Charge input 19.5 V, 1.6 A

Electromagnetic Compatibility (EMC)

International..... IEC 61326-1: Basic
Electromagnetic Environment;
CISPR 11: Group 1, Class A

Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.

Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a low-voltage power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances.

Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments.

Korea (KCC)..... Class A Equipment (Industrial
Broadcasting & Communication
Equipment)

Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.

USA (FCC) 47 CFR 15 subpart B. This
product is considered an
exempt device per clause
15.103 (non FC versions only)

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Fluke declares that the radio equipment contained in this Product is in compliance with Directive 2014/53/EU. The full text of the EU declaration is available at the following internet address:

www.fluke.com/declaration-of-conformity