

9102S

Dry-Well Calibrator

Safety Information



1-year limited warranty. See the User's Guide for the full warranty.

Introduction

The Fluke Calibration 9102S Dry-Well Calibrator (the Product or the Calibrator) is a small portable instrument designed for quick on-site checks and calibration of thermocouple and RTD temperature probes.

To see product information or download the User's Guide and the latest manual supplements, visit Fluke Calibration's website at www.flukecal.com.

Contact Fluke Calibration

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

- Technical Support USA: 1-877-355-3225
- Calibration/Repair USA: 1-877-355-3225
- Canada: 1-800-36-FLUKE (1-800-363-5853)
- Europe: +31-40-2675-200
- Japan: +81-3-6714-3114
- Singapore: (65) 6799-5588
- China: +86-400-810-3435
- Brazil: +55-11-3759-7600
- Anywhere in the world: +1-425-446-6110

To see product information and download the latest manual supplements, visit Fluke Calibration's website at www.flukecal.com.

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

Safety Information

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 alter the Product and use only as specified, or the protection supplied by the Product can be compromised.
- Use this Product indoors only.
- 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.
- Disable the Product if it is damaged.
- Do not use the Product if it operates incorrectly.
- Make sure that the space around the Product meets minimum requirements.
- Use caution when you install and remove probes and inserts from the Product. They can be hot.
- Do not keep the Product in operation and unattended at high temperatures.
- Connect an approved three-conductor mains power cord to a grounded power outlet.
- Do not turn the instrument upside down with the insert in place; the insert will fall down.
- Do not operate near flammable materials.
- Do not turn off the Product at temperatures higher than 100 °C. Select a set-point less than 100 °C and allow the instrument to cool before turning it off.
- Do not put the Product where access to the mains power cord is blocked.
- Before the Product can be assumed to meet all of the safety requirements of the IEC 61010-1, the Product needs to be energized for a “dry-out” period of 2 hours when any of these conditions have occurred:
 - Before initial use
 - After transport
 - After storage in humid or semi-humid environments
 - Any time the dry-well has not been energized for more than 10 days

If the Product is used elsewhere, is wet or has been in a wet environment, take necessary measures to remove moisture prior to applying power. For example, storage in a low-humidity temperature chamber operating at 50 °C for 4 hours or more.

- Do not use the Product around explosive gas, vapor, or in damp or wet environments.
- Do not operate the Product with covers removed or the case open. Hazardous voltage exposure is possible.
- Use only the mains power cord and connector approved for the voltage and plug configuration in your country and rated for the Product.
- Have an approved technician repair the Product.

Symbols

Symbol	Description
	WARNING. RISK OF DANGER.
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	AC (Alternating Current)
	DC (Direct Current)
	Consult user documentation.
	Conforms to European Union directives.
	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.
	Conforms to relevant South Korean EMC Standards.
	Certified by CSA Group to North American safety standards.
	Conforms to relevant Australian Safety and EMC standards.

Safety Specifications

Full specifications are located in the *9102S User's Guide*.

Power Requirements

Power Rates..... 100 V ac to 240 V ac, 50/60 Hz, 90 VA; or 12 V dc, 2.6 A

Environmental Conditions

Operation Temperature Range 5 °C to 50 °C (41 °F to 122 °F)

Ambient Relative Humidity 0 % to 80 % RH for temperatures up to 30 °C, 0 to 50 % RH for temperatures 30 °C to 50 °C

Ambient Pressure 75 kPa to 106 kPa

Altitude <2000 m

Safety

IEC 61010-1: Overvoltage Category II, Pollution Degree 2, IEC 61010-2-010 (Heating)

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.