FLUKE®
Calibration

5128A

RHapid-Cal Humidity Generator

Safety Information



1-year limited warranty. See the Operators Manual for the full warranty.

Contact Fluke Calibration

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

Introduction

This document supplies safety information for the RHapid-Cal Humidity Generator (the Product).

Safety Information

A **Warning** identifies hazardous conditions and actions that could cause bodily harm or death.

A **Caution** identifies conditions and actions that could damage the Product, the equipment under test, or cause permanent loss of data.

⚠⚠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 this Product indoors only.**
- **Do not tilt the Product with water in the reservoir. Product must be installed on a flat stable horizontal surface.**
- **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.**
- **Make sure the ground conductor in the mains power cord is connected to a protective earth ground. Disruption of the protective earth could put voltage on the chassis that could cause death.**
- **Use the Product only as specified, or the protection supplied by the Product can be compromised.**
- **Do not put the Product where access to the mains power cord is blocked.**
- **Do not use the Product if it is damaged.**
- **Disable the Product if it is damaged.**

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- **Do not use the Product if it operates incorrectly.**
- **Do not operate the Product with covers removed or the case open. Hazardous voltage exposure is possible.**
- **Use only specified replacement parts.**
- **Use only specified replacement fuses.**
- **Have an approved technician repair the Product.**
- **Empty the reservoir before shipping the Product.**
- **Do not overfill the reservoir.**

For safe operation and maintenance of the Product:

- **Turn off the Product and remove the mains power cord. Stop for 2 minutes to let the internal circuits discharge before you open the fuse door or remove Product covers.**

Symbols

The symbols used in this manual and on the Product are shown in Table 1.

Table 1: Symbols

Symbol	Description
	WARNING. HAZARDOUS VOLTAGE. Risk of electric shock.
	WARNING. RISK OF DANGER.
	Consult user documentation.
	Certified by CSA Group to North American safety standards.
	Conforms to European Union directives.
	Conforms to relevant Australian EMC standards.
	Fuse
	Conforms to relevant South Korean EMC Standards.
	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.

General Specifications

AC mains voltage ..... 100 V to 240 V ±10 %, 47 Hz to 63 Hz
Power consumption ..... 300 VA
Required test fluid ..... distilled water
Warm-up period to meet specifications ..... Twice the time since last warmed up, to a maximum of 30 minutes
Internal humidifier warm-up period (time for “HEATING” to go off) ..... 30 minutes (Typical)
Mains Fuse Rating ..... F 4A 250 V (fast blow)
Operating ambient relative humidity range, 18 °C to 28 °C ..... up to 80 % RH
Storage temperature and relative humidity ..... -20 °C to 50 °C, 0 % to 95 % RH, non-condensing
Transducer Power Output ..... 12 V dc, 1 A maximum, fuse: F 1A 250V (fast blow)
Computer Interface… ..... USB
Safety ..... IEC 61010-1, Installation Category II, Pollution degree 2, Indoor use only
Altitude ..... 2000 m

Electromagnetic Compatibility (EMC)

International ..... IEC 61326-1: Controlled 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.

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.

Weight

Chassis Only ..... 15 kg (33 lbs)