

8270A/8370A

High-Pressure Modular Controller

Safety Information



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

Contact Fluke Calibration

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

Introduction

The Fluke Calibration 8270A/8370A High-Pressure Modular Controller (the Product) precisely measure and control pneumatic pressures up to 44 MPa (6300 psi) and 107 MPa (15 500 psi), respectively. Use the Product to calibrate, characterize, or test a wide variety of pressure measurement devices that include transmitters, gauges, and switches.

Safety Information

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

Warning

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

- 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.
- 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.

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- Do not operate the Product with covers removed or the case open. Hazardous voltage exposure is possible. Pressure modules may be exchanged through the front panel while the Product is turned on.
- Use this Product indoors only.
- Do not put the Product where access to the mains power cord is blocked.
- Use only the mains power cord and connector approved for the voltage and plug configuration in your country and rated for the Product.
- 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.
- Replace the mains power cord if the insulation is damaged or if the insulation shows signs of wear.
- Use the Product only as specified, or the protection supplied by the Product can be compromised.
- Before the Product is used to apply pressure, ensure the integrity of all components to be pressurized and make sure they are rated to adequate working pressure.
- 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 operates incorrectly.
- Disable the Product if it is damaged.
- Use only specified replacement parts.

- Have an approved technician repair the Product.
- Do not disable safety interlocks or pressure-relief devices.
- Use two handles to lift and carry the Product.

Symbols

The symbols used in the manuals and on the Product are shown below.

Symbols

Symbol	Description
	Hazardous voltage. Risk of electric shock.
	Risk of Danger. Important information. See Manual.
	Consult user documentation.
	Fuse
	Earth Terminal
	Certified by CSA Group to North American safety standards.
	Conforms to European Union directives.
	Conforms to relevant Australian EMC standards.
	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.

Specifications

Full specifications are located online in the *8270A/8370A Specifications*.

Safety Specifications

General Specifications

Mains

Power Requirements	100 V ac to 240 V ac, 47 Hz to 63 Hz
Fuse	T3.15 A 250 V ac
Max Power Consumption.....	100 W

Environment

Operating Ambient Temperature Range.....	15 °C to 35 °C
Storage Temperature.....	-20 °C to 70 °C
Relative Humidity	
Operating	<80 % to 30 °C, <70 % to 40 °C
Storage	<95 %, non-condensing. A power stabilization period of four days may be required after extended storage at high temperature and humidity.
Vibration.....	MIL-T-28800E
Altitude (Operation).....	<3000 m
Warmup Time	15 minutes after power up or module installation, when items previously stored within Operating Ambient Temperature Range.

Compliance

Ingress Protection	IEC 60529: IP20
Safety	IEC 61010-1, Installation Category II, Pollution degree 2

Electromagnetic Compatibility (EMC)

IEC 61326-1 (Controlled EM environment)	IEC 61326-2-1; CISPR 11: Group 1, Class A <i>Group 1 equipment has intentionally generated and/or use conductively coupled radio-frequency energy which is necessary for the internal functioning of the equipment itself.</i> <i>Class A equipment is equipment suitable for use in all establishments other than domestic and those directly connected to a low voltage power supply network which supplies buildings used for domestic purposes.</i> <i>Emissions which exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object. The equipment may not meet the immunity requirements of 61326-1 when test leads and/or test probes are connected.</i>
USA (FCC)	47 CFR 15 subpart B, this product is considered an exempt device per clause 15.103
Korea (KCC).....	Class A Equipment (Industrial Broadcasting & Communication Equipment) <i>This product meets requirements for industrial (Class A) 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.</i>