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ICM Controls ICM492

ICM Controls ICM492 Single Phase Monitor User Manual

Model: ICM492

PRODUCT OVERVIEW

The ICM Controls ICM492 is a digital single-phase line voltage monitor designed to protect electrical equipment from voltage fluctuations. It is fully programmable and features a 5-fault memory for diagnostics. This device safeguards against under-voltage, over-voltage, and rapid short cycling caused by transient faults and power interruptions. It operates within a voltage range of 80-300 VAC and supports 24-240 control VAC.



Figure 1: ICM Controls ICM492 Single Phase Monitor. This image displays the ICM Controls ICM492 Single Phase Monitor. It features an LCD screen showing '120V' and 'LOAD ON', indicating its operational status. The device has terminals for L1, L2, NO, NC, and COM connections, along with 'ADJUST' and 'SELECT' buttons for configuration. The label indicates it operates from 80-300 VAC and has a 10 Amp relay at 277VAC, proudly stating 'MADE IN THE USA'.

INSTALLATION AND SETUP

Proper installation is crucial for the safe and effective operation of the ICM492. Ensure all power is disconnected before beginning installation.

Mounting

The ICM492 is designed for panel mounting. Secure the unit using appropriate fasteners through the mounting holes provided on the device. Ensure adequate ventilation around the unit.

Wiring

Refer to the wiring diagram below for correct connections. All wiring should comply with local electrical codes.

- **L1, L2:** Input voltage connections (80-300 VAC).
- **NO (Normally Open), NC (Normally Closed), COM (Common):** Relay contacts for controlling external equipment. The relay is rated for 10 Amps at 277VAC resistive load.
- **Control Voltage:** 18-240 VAC for specific control applications.

Important: Verify all connections are secure before restoring power.

OPERATING INSTRUCTIONS

The ICM492 features an easy-view, backlit digital display and user-friendly buttons for setup and diagnostics.

Display and Buttons

- **LCD Display:** Shows real-time voltage readings and diagnostic messages.
- **ADJUST Buttons (Up/Down Arrows):** Used to navigate menus and adjust parameter values.
- **SELECT Button:** Used to enter menus, confirm selections, and view fault memory.

Programming Settings

The unit is fully programmable to suit specific protection requirements.

1. **Adjustable Voltage Set Point:** Configure the nominal voltage for monitoring.
2. **Adjustable Over Voltage Setting:** Set the upper voltage limit beyond which the unit will trip.
3. **Adjustable Under Voltage Setting:** Set the lower voltage limit below which the unit will trip.
4. **Rapid Short Cycling Protection:** The device inherently protects against rapid cycling, preventing damage to connected equipment.

Consult the detailed programming guide (usually included with the product packaging) for step-by-step instructions on setting each parameter.

MAINTENANCE

The ICM492 is designed for minimal maintenance. Periodically inspect the unit and its connections for any signs of wear, damage, or loose wiring. Ensure the display remains clear and readable. No user-serviceable parts are inside. Do not attempt to open the casing.

TROUBLESHOOTING

The ICM492 includes a 5-fault memory feature to assist in diagnosing power issues.

Viewing Fault Memory

Press the SELECT button to cycle through the stored fault codes and their corresponding voltage readings and timestamps. This feature helps identify intermittent power problems.

Common Issues and Solutions

Problem	Possible Cause	Solution
Unit not powering on.	No input voltage; incorrect wiring; internal fault.	Check input voltage at L1/L2 terminals. Verify wiring connections. If problem persists, contact support.

Problem	Possible Cause	Solution
Unit trips frequently.	Voltage outside set parameters; sensitive settings.	Review fault memory for voltage history. Adjust over/under voltage settings if necessary, ensuring they are appropriate for your application. Consult an electrician if power quality is consistently poor.
Display shows error code.	Specific internal or external condition detected.	Refer to the product's full manual for a list of error codes and their meanings.

SPECIFICATIONS

Feature	Detail
Product Model	ICM492
Voltage Range	80-300 VAC
Control Voltage	18-240 VAC
Relay Output	10 Amps @ 277VAC Resistive
Fault Memory	5-fault memory
Display	Easy-view, Backlit Digital Display
Protection Features	Under/Over voltage, Rapid Short Cycling
Dimensions (L x W x H)	8 x 6.3 x 2.1 inches
Item Weight	0.44 Pounds (7.04 ounces)
Manufacturer	ICM

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product or visit the official ICM Controls website. If you require technical assistance or have questions regarding the operation or installation of your ICM492, please contact ICM Controls customer support.

Manufacturer: ICM Controls