Installation, Operation and Maintenance Instructions

Unicon Controller
1-15 Amp
Model Nema 12 and Chassis Mount 115 or 230 Volt AC
Introduction

This manual details the proper steps for installing, operating and maintaining the Eriez Unicon Controller.

Careful attention to these requirements will assure the most efficient and dependable performance of this equipment.

If there are any questions or comments about the manual, please call Eriez at 814-835-6000 for Unicon Controller assistance.

CAUTION

Safety labels must be affixed to this product. Should the safety label(s) be damaged, dislodged or removed, contact Eriez for replacement.
Table of Contents

ERIEZ UNICON CONTROLLER 1-15 AMP
MODEL NEMA 12 AND CHASSIS MOUNT 115 OR 230 VOLT AC

GENERAL DESCRIPTION ..................................................................................................4
TECHNICAL DATA.............................................................................................................5
DECLARATION OF CONFORMITY .....................................................................................5
COMMISSIONING .............................................................................................................6
PRELIMINARY STEPS ....................................................................................................6
OPERATING CURRENT OF THE FEEDER COIL ............................................................6
SETTINGS ....................................................................................................................6
CONNECTIONS, DIMENSIONS AND SET-UP INSTRUCTIONS ........................................7
    N12 Version ..............................................................................................................7
    Chassis Mount Version ............................................................................................8
PARTS LIST ..................................................................................................................9
    3N-9966960 ...........................................................................................................9
    4N-9966960 .........................................................................................................10
    4N-9967157 .........................................................................................................11
General Description

Electronic control units for stepless adjustment of vibratory feeder throughput. The control units are suitable for feeders with a vibrating frequency of 60 Hz (50 Hz) and 120 Hz (100 Hz). The frequency is selected by using an internal link-switch on the printed circuit board. The feeder throughput can be adjusted by using the integrated potentiometer. An enable input is available for Stop/Start operation from contacts or a supervisory control system. Umin and Umax trimmers are provided to limit the throughput adjustment range.

An integral soft-start reduces jolting when the unit is switched on or enabled.

The enclosed version includes mains input and feeder output cables. In the front panel there is a mains switch and a throughput adjustment potentiometer. The potentiometer can be used to set the feed rate from 10...100%, it’s also possible to reduce the range of output voltage by using the internal Umin and Umax trimmers.
Technical Data

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<td><strong>Supply Voltage</strong></td>
<td>115V, +/- 10%, 115V, +/- 10%</td>
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<td><strong>Mains Frequency</strong></td>
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<td><strong>Output Voltage</strong></td>
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<td>20...110V, 40...220V</td>
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<td><strong>Vibrating Frequency</strong></td>
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<td>Internal Potentiometer</td>
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<td>0...10 VDC, 22 kR</td>
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<td>0...20 mA, 250 R</td>
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<td>Internal Potentiometer</td>
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<td>0...10 VDC, 22 kR</td>
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<td><strong>Enable</strong></td>
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<td><strong>Storage Temperature</strong></td>
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Declaration of Conformity

We declare that these products conform with the following:

Directives:
  Low Voltage Directive 2014/35/EN
  Electromagnetic Compatibility 2014/30/EN

Standards:
EN 50178
EN 61000-6-2
EN 61000-6-4
Commissioning

⚠️ INSTALLATION
Ensure that the control units are mounted in a vibration free environment and ensure that sufficient air circulation is provided for cooling purposes

Preliminary Steps

- Check that the unit is correct for the local mains supply (rating plate information) and that it is correctly rated for the feed system.
- Connect the controller according to the connection diagram

⚠️ IMPORTANT POINTS
When applications with frequently on and off cycles are required, use the enable control Input provided. It is prohibited to open the current circuit with a switch or a contactor while the feeder is running, as this may cause damage to the controller

Operating Current of the Feeder Coil

The RMS current should be checked to ensure that the feeder/coil combinations are operating within their rated tolerance.

The different iterations of the UNICON control will be fused at specific levels to provide protection for specific feeder drive needs.

The coil should be designed for the correct operating frequency to prevent excessive current draw and the consequential overloading of the coil.

Settings

Check the input voltage before switching on the controller. The control is set to the voltage specified by the user at the factory. Be sure to use the same voltage specified. If voltage must be changed, see schematic for proper setting.

Check the Frequency of the Feeder to ensure that the frequency selection switch is in the correct setting.

Umin and Umax trimmers are provided to limit the throughput adjustment range, they are also located inside the controller.
Connections, Dimensions and Set-up Instructions

N12 Version

Definable Settings and Connection Information

NOTES FOR ERIEZ FEEDER DRIVE SET TO FULLWAVE FOR OTHER CONSULT FACTORY

INPUT FUSE

GAIN TRIM POTENTIOMETER
FULL OUTPUT SETTING
SET FOR MAXIMUM OUTPUT
WILL NEED TO BE RESET AFTER BIAS IS SET

BIAS TRIM POTENTIOMETER
SETS LOW END OF OUTPUT RANGE
SET FOR APPROX. 28VAC OUTPUT FOR 115VAC
SET FOR APPROX. 57VAC OUTPUT FOR 230VAC
CHECK OUTPUT AT TERMINALS 22 & 21 WITH VOLTMETER

NOTE: FOR ERIEZ FEEDER DRIVE SET TO FULLWAVE FOR OTHER CONSULT FACTORY

INPUT VOLTAGE SELECTOR SWITCH SETTINGS

OUTPUT WAVEFORM SELECTOR SWITCH SETTINGS

EXTERNAL SETPOINT SETTINGS

WARNING LABELS

EXTERNAL CONNECTION FOR EXTERNAL SETPOINT
INTERNAL (POTENTIOMETER) SETPOINT SELECTION &SWITCH TERMINALS

FACTORY JUMPER INSTALLED FOR ON/OFF CYCLING
INTERNAL POWER SUPPLY CONTACT ACROSS TERMINALS 5 & 6

ANALOG INPUT
0-10VDC, 4-20MA

SET-UP INSTRUCTIONS

230VAC, POTENTIOMETER ONLY
SET INPUT VOLTAGE 230VAC, FIG. 1
INTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

230VAC, 4-20MA OPERATION
SET INPUT VOLTAGE 230VAC, FIG. 1
SET INTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

230VAC, 0-10VDC OPERATION
SET INPUT VOLTAGE 230VAC, FIG. 1
SET EXTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

115VAC, POTENTIOMETER ONLY
SET INPUT VOLTAGE 115VAC, FIG. 1
SET INTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

115VAC, 4-20MA OPERATION
SET INPUT VOLTAGE 115VAC, FIG. 1
SET INTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

115VAC, 0-10VDC OPERATION
SET INPUT VOLTAGE 115VAC, FIG. 1
SET EXTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

ERIEZ NAMEPLATE

CONTROL OUTPUT
0-110VAC
0-220VAC
15AMPS MAX., 50, 60HZ

CONTROL INPUT
115/230VAC, 1 PHASE
15AMPS, 50, 60HZ

SET-UP INSTRUCTIONS

115VAC, POTENTIOMETER ONLY
SET INPUT VOLTAGE 115VAC, FIG. 1
SET EXTERNAL SETPOINT JUMPER PIN 2, FIG. 2
EXTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

115VAC, 4-20MA OPERATION
SET INPUT VOLTAGE 115VAC, FIG. 1
SET EXTERNAL SETPOINT JUMPER PINS 1 & 2, FIG. 2
EXTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

115VAC, 0-10VDC OPERATION
SET INPUT VOLTAGE 115VAC, FIG. 1
SET EXTERNAL SETPOINT JUMPER PIN 2, FIG. 2
EXTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

10K, OHM, 2W ON CONTROL COVER

POTENTIOMETER
10k, OHM, 2W ON CONTROL COVER
Connections, Dimensions and Set-up Instructions
Chassis Mount Version

INPUT VOLTAGE
SELECTOR SWITCH
SETTINGS

OUTPUT WAVEFORM
SELECTOR SWITCH
SETTINGS

GAIN TRIM POTENTIOMETER
FULL OUTPUT SETTING
SET FOR MAXIMUM OUTPUT
WILL NEED TO BE RESET AFTER BIAS IS SET

BIAS TRIM POTENTIOMETER
SET LOW END OF OUTPUT RANGE
SET FOR APPROX. 57VAC OUTPUT FOR 230VAC
CHECK OUTPUT AT TERMINALS 22 & 21 WITH VOMETER

EXTERNAL SETPOINT SETTINGS

NOTE: FOR ERIEZ FEEDER
DRIVE SET TO FULLWAVE
FOR OTHER CONSULT
FACTORY

INPUT FUSE

CONTROL OUTPUT
0-110VAC
0-220VAC
15AMPS MAX., 50, 60Hz

CONTROL INPUT
115/230VAC, 1 PHASE
15AMPS, 50, 60Hz

FACTORY JUMPER
INSTALLED FOR
POTENTIOMETER
OPERATION

EXTERNAL SETPOINT SETTINGS

FACTORY JUMPER
INSTALLED FOR
EXTERNAL SETPOINT
4-20MA, 0-10VDC

EXTERNAL, (0-10VDC, 4-20MA)
INTERNAL (POTENTIOMETER)
SETPOINT SELECTION &
SWITCH TERMINALS

CONTROL ENABLE FOR
ON/OFF CYCLING
FACTORY JUMPER INSTALLED
FOR REMOTE ON/OFF INSTALL
CONTACT ACROSS TERMINALS
5 & 6

ANALOG INPUT
0-10VDC, 4-20MA

0-110VAC
0-220VAC

15AMPS MAX., 50, 60Hz

FACTORY JUMPER
INSTALLED FOR
POTENTIOMETER
OPERATION

FULL/HALFWAVE
SELECTOR SWITCH

115/230VAC SELECTOR SWITCH

GAIN TRIM POTENTIOMETER

BIAS TRIM POTENTIOMETER

EXTERNAL SETPOINT SELECTOR

INTERNAL/EXTERNAL SETPOINT
TERM BLOCK

ON CONTROL COVER

230VAC, POTENTIOMETER ONLY
SET INPUT VOLTAGE 230VAC, FIG. 1
SET EXTERNAL SETPOINT PIN 2, FIG. 2
INTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

230VAC, 4-20MA OPERATION
SET INPUT VOLTAGE 230VAC, FIG. 1
SET EXTERNAL SETPOINT JUMPER PINS 1&2, FIG. 2
EXTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

230VAC, 0-10VDC OPERATION
SET INPUT VOLTAGE 230VAC, FIG. 1
SET EXTERNAL SETPOINT JUMPER PIN 2, FIG. 2
EXTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

SET-UP INSTRUCTIONS

115VAC, POTENTIOMETER ONLY
SET INPUT VOLTAGE 115VAC, FIG. 1
SET EXTERNAL SETPOINT PIN 2, FIG. 2
INTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

115VAC, 4-20MA OPERATION
SET INPUT VOLTAGE 115VAC, FIG. 1
SET EXTERNAL SETPOINT JUMPER PINS 1&2, FIG. 2
EXTERNAL SETPOINT JUMPER INSTALLED, FIG. 3

115VAC, 0-10VDC OPERATION
SET INPUT VOLTAGE 115VAC, FIG. 1
SET EXTERNAL SETPOINT JUMPER PIN 2, FIG. 2
EXTERNAL SETPOINT JUMPER INSTALLED, FIG. 3
# Parts List

**3N-9966960**

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# Parts List

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