



Presto™ Electronic Assembly Installation Instructions

Regulatory Compliance

Safety

This device has been tested and found to be in compliance with the requirements set forth in UL 916, Energy Management Equipment, and is listed by Underwriters Laboratories, Inc., for installations in the United States.

This device has been tested and found to be in compliance with the requirements set forth in C22.2, No. 205-M1983, Signal Equipment, and is Certified by Underwriters Laboratories, Inc., for installations in Canada.

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Novar Controls Corporation
6060 Rockside Woods Blvd., Cleveland, OH 44131
Tel.: 800.348.1235 www.novarcontrols.com

Description

Novar Controls Corporation's Presto™ Energy Infosystem is a comprehensive, totally integrated, automation system that meets the control and facility information needs of a restaurant. It combines state-of-the-art microprocessor technology and software development techniques with the most advanced automation and information management concepts to bridge the gap between building automation and management information systems.

Presto's convenient, intuitive touchscreen display allows restaurant management and service personnel to:

- Navigate through the system.
- Monitor and adjust various critical temperatures and operating parameters for indoor/outdoor lighting, heating, air-conditioning, refrigeration systems, and kitchen equipment.
- Initiate a timed override.
- Make temporary or permanent schedule changes.
- Change temperature setpoints.
- Obtain operational and diagnostic information to prevent downtime and optimize utility usage.
- Initiate a call for service.
- Acknowledge alarms. (Presto automatically announces and displays alarms, locally and remotely, to a service company or corporate headquarters.)

Presto's building-block design provides:

- A quick, easy, cost-effective way to expand rather than replace a system by simply adding Novar Controls' pre-engineered control modules and application programs as the need arises.
- Customization capabilities that allow users to select and add components to the system to meet unique control and monitoring requirements, regardless of facility size and type.
- Adaptability that allows a system to incorporate new advances in control and sensor technology as they become available.

Presto can monitor, log, and display the following information:

- Current status, schedules, and temperatures
- Electricity, gas, and water usage
- Alarm history
- Temperature history
- Equipment run-time history

This document describes the procedures for mounting the unit, connecting to the telephone network, and checking the installation.

Presto Specifications

Agency Approvals

Listed device:	CUL/UL E90949
Standards used:	UL 916, Energy Management Equipment CSA C22.2, No. 205-M1983, Signal Equipment

Power Requirements

Voltage:	24 VAC, Class 2
Consumption:	40 VA

Input/Output Ratings (Class 2)

Analog Inputs:	4 to 20 mA
Digital Inputs:	Contact closure only
Triac Outputs:	24 VAC, 2 amp (pilot duty)
Relay Outputs:	24 VAC or VDC, 2 amp (pilot duty)
Output (Fault):	24 VAC or VDC, 2 amp (pilot duty)

Operating Environment

Temperature:	32° to 140°F (0° to 60°C)
Humidity:	0 to 95% Relative, noncondensing

Physical Dimensions (Electronics Only)

Height:	19 inches
Width:	13.25 inches
Depth:	2.5 inches
Weight:	7.85 lb (All aluminum enclosure)

Precautions

CAUTION! This device contains a lithium battery that must be disposed of properly. Replacing it with the wrong type of battery can cause an explosion. Only qualified personnel should service this equipment.

Take the following precautions during installation:

- Observe national and local electrical codes.
 - Reduce the risk of electrical shock or fire. Do *not* interconnect the outputs of different Class 2 circuits.
 - Do *not* rely on the Presto as a final safety device.
 - Make sure the HOA switches included in the Presto configuration are in the proper position to turn off power during the installation procedure.
 - Make sure that the 24-VAC power wiring is connected to a dedicated transformer. No other devices (including the outputs) should be powered by the transformer connected to the Presto.
 - Do *not* ground the transformer for this module on the secondary side.
 - Make sure that the Presto power cannot be switched off accidentally. The Presto requires continuous power for proper operation.
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Installing the Presto Electronic Assembly on the Baseplate

Use the following procedure to install the Presto electronic assembly on the baseplate.

Step	Procedure
1	Loosen the two screws at the bottom of the baseplate with the hex wrench included with the electronic assembly and lift off the cover.
2	Slide the Presto electronics assembly down from the top of the baseplate assembly and over the mounting posts.
3	Guide the DB25 and DB37 connectors on the Presto electronics assembly over the corresponding connectors on the Presto transition circuit board.
4	Tighten the two retaining screws with the hex wrench to secure the Presto electronic assembly to the baseplate.
5	Connect a telephone cable (see “Connecting to the Telephone Network” for more detail), Ethernet Cable, and/or RS-232 direct-connect cable as required for installation.
6	Check all wiring connections and replace the baseplate cover.

Connecting to the Telephone Network

If the Presto installation requires connection to the telephone network, a telephone interface jack must be located at the installation site.

NOTE! The telephone interface jack is normally supplied by the telephone company and should be type RJ-11C. The location of the jack should not be more than 6 feet from the Presto.

Thread appropriate telephone cable from the telephone interface jack through the knock-out on the side of the baseplate assembly and insert it into the phone line connection located at the top left of the Presto’s transition circuit board.

Checking Installation

NOTE! The system programming must be downloaded to the Presto panel *before* the installation can be checked.

A portable computer running iScope® or ESS32 software should be used to check the installation at the Presto panel location. The portable computer connects to the Presto panel through the RS-232 port connection at the bottom right side of the Presto electronics assembly. The Presto is connected to the portable computer via the RS-232 adapter cable (Part No. 600540000).

Refer to the iScope or ESS32 instructions for system monitoring and checkout.

Model and Part Numbers

Use the part numbers shown in Table 1 to order the necessary Novar Controls parts.

Table 1. Novar Controls Part Numbers		
PRODUCT	MODEL NO.	PART NO.
Presto Baseplate (same as the Savvy® Baseplate)	Savvy-BPL	751100000
■ Presto Electronics Assembly (Relay, Modem)	—	752002200
■ Presto Electronics Assembly (Relay, Modem, and Touchscreen)	—	752012200
Presto Remote Touchscreen	—	752100000
24 VAC, 40 VA, Class 2, Transformer Kit	24V-XFR	730090000
Analog Light Sensor	ALS	708100000
Outdoor Temperature Sensor	OTS/2	735070000
Two-Conductor Cable (Belden #8761 equivalent)	WIR-1010	709001000
