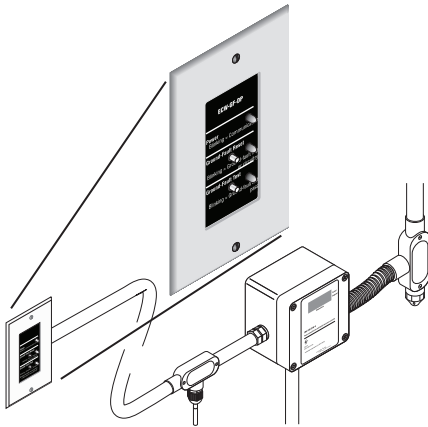




RAYCHEM

ECW-GF-DP

Remote Display Pane Installation and Operation Instructions



APPROVALS

Nonhazardous Locations



KIT CONTENTS

Item	Qty	Description
A	1	Display panel with mounting screws
B	1	Single duplex outlet cover plate with mounting screws

DESCRIPTION

The nVent RAYCHEM ECW-GF-DP is a remote display panel only for the RAYCHEM ECW-GF electronic controller. The ECW-GF-DP allows remote monitoring of the heating cable system operation. The display has LED indicators which signal communication loss to the controller, high/low temperature alarm, and temperature sensor failure. The display also has buttons to test and reset the ground-fault sensor. The display may be located up to 328 feet (100 m) from the ECW-GF controller.

The ECW-GF-DP remote display panel must be installed in conjunction with the ECW-GF controller. Refer to the ECW-GF installation instructions (H58339) for further details.

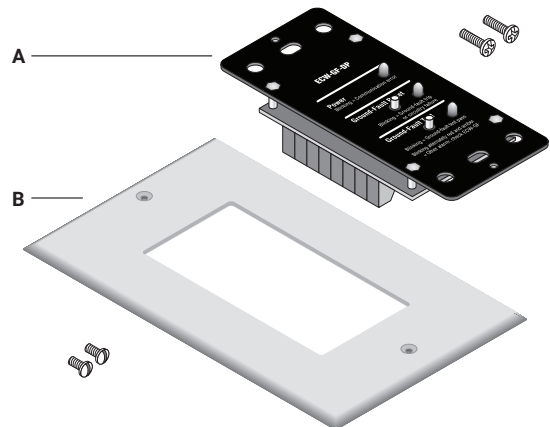
For technical support, call nVent at (800) 545-6258.

TOOLS REQUIRED

- Large slotted screwdriver
- Needle nose pliers
- Small slotted screwdriver
- Wire strippers

ADDITIONAL MATERIALS REQUIRED

- Duplex junction box
- 1/2 inch conduit
- Communication cable: 8 conductor 22 AWG shielded Alpha Cat. No. 1298C or equivalent

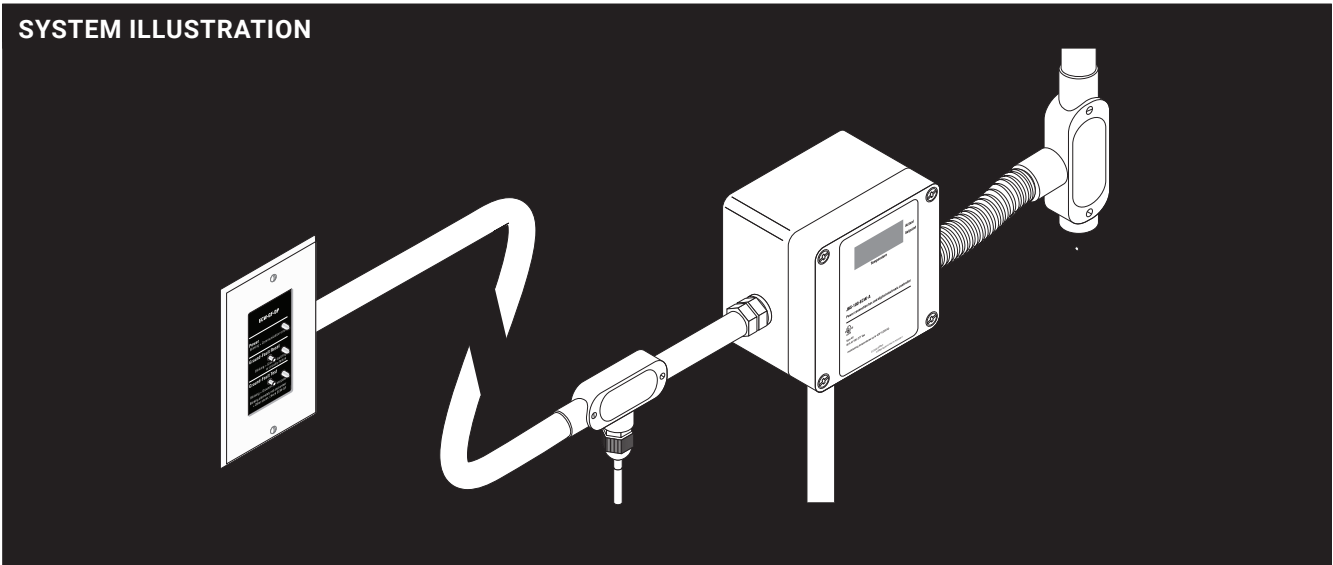


⚠ WARNING:

This unit should be installed, opened, and repaired by qualified personnel only.

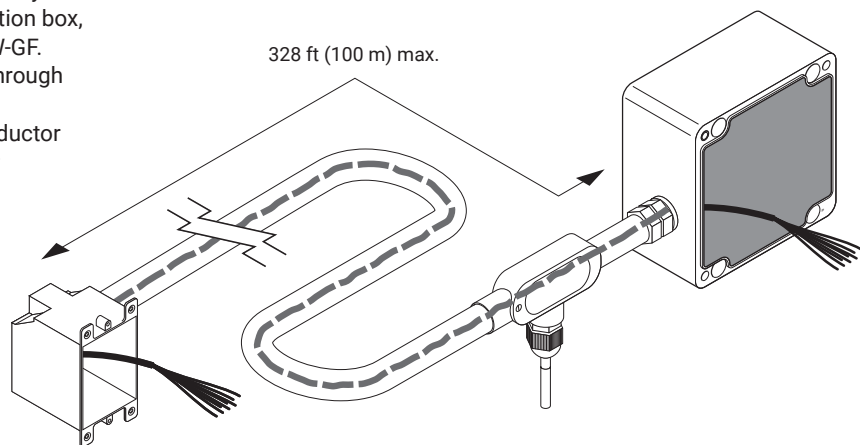
To avoid shock hazard, do not open the front cover with power connected to the controller or any controlled equipment. Always open any circuit breakers and remove power from any high voltage electrical circuits installed in close proximity to or sharing an enclosure with the ECW-GF-DP prior to removing the enclosure cover plate. Read all instructions carefully before installation. Save this Installation and Operation Instruction for future reference.

SYSTEM ILLUSTRATION



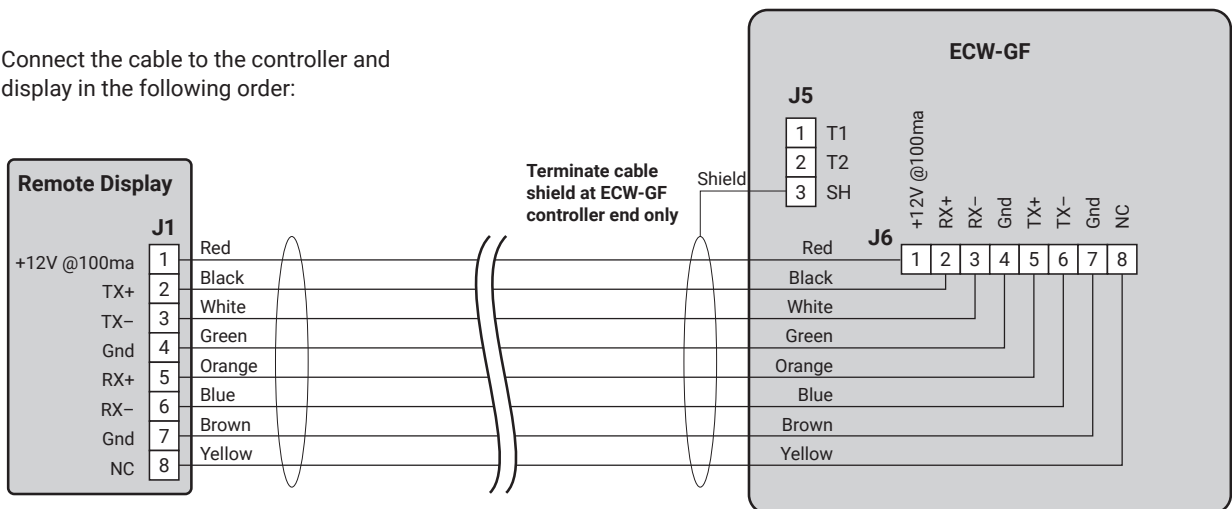
1

- Install the ECW-GF-DP in an indoor dry location in a standard duplex junction box, up to 328 ft (100 m) from the ECW-GF.
- Route the communication cable through the 1/2-in entry.
- Communication cable type: 8 conductor 22 AWG shielded (Alpha 1298C or equivalent)



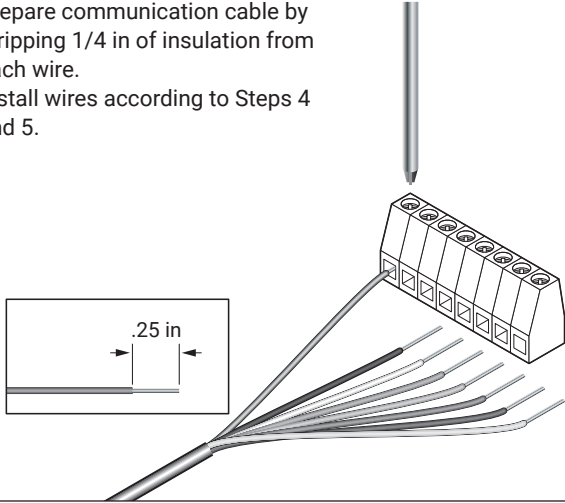
2

- Connect the cable to the controller and display in the following order:



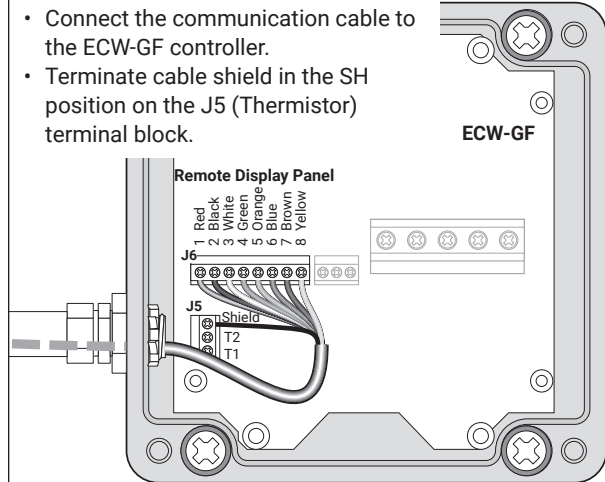
3

- Prepare communication cable by stripping 1/4 in of insulation from each wire.
- Install wires according to Steps 4 and 5.



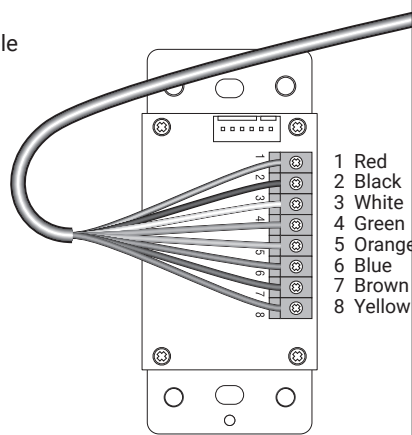
4

- Connect the communication cable to the ECW-GF controller.
- Terminate cable shield in the SH position on the J5 (Thermistor) terminal block.



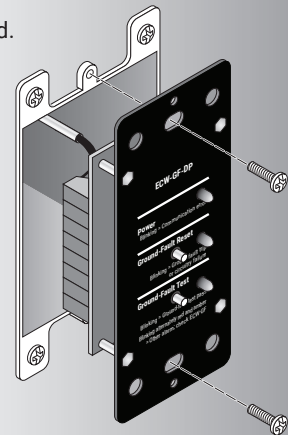
5

- Connect the communication cable to the ECW-GF-DP.



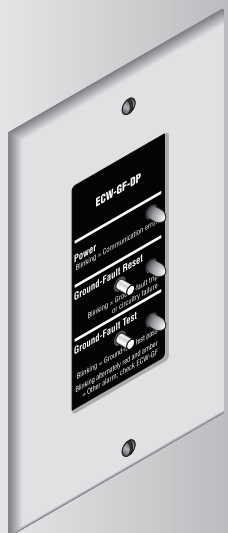
6

- Stow wires and install ECW-GF-DP in duplex junction box.
- Secure with screws supplied.



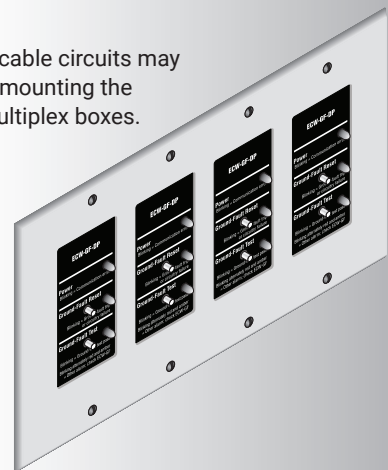
7

- Install plastic cover over ECW-GF-DP Remote Display Panel.

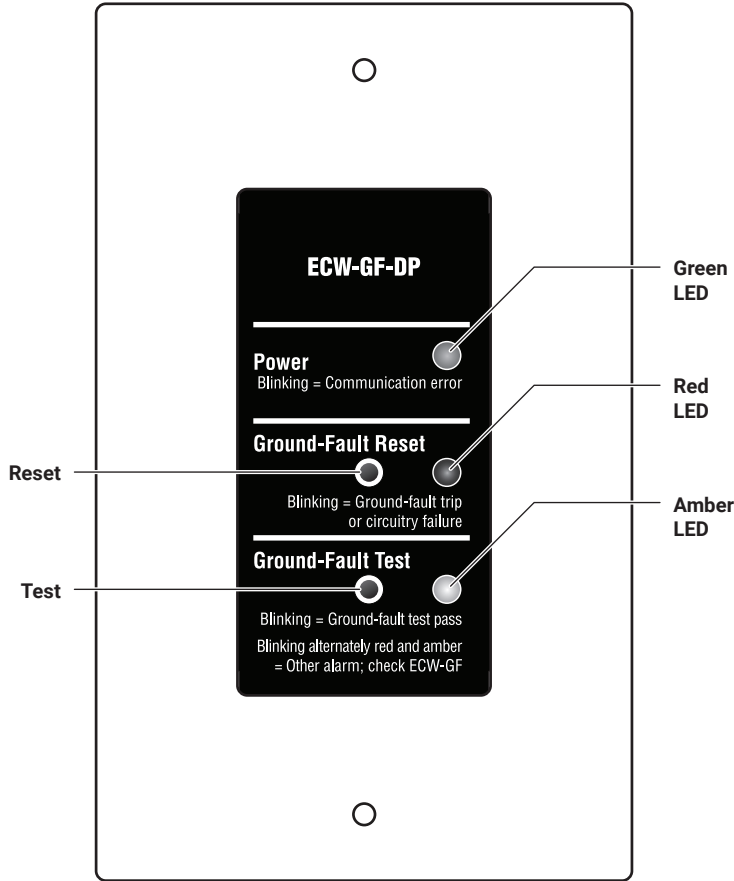


8

- Multiple heating cable circuits may be monitored by mounting the ECW-GF-DP in multiplex boxes.



OPERATING INSTRUCTIONS



Normal Operation

The Green LED shows that the display is connected to the ECW-GF controller and the controller is powered.

Communication Error

If the Green LED is blinking verify that the wiring to the display and controller are correct.

Ground-Fault Error

If the Red LED is blinking, the system has a ground-fault error. Check the ECW-GF controller for the error code on the display. Press the Reset button once the ground-fault error has been corrected.

Ground-Fault Test

To test the ground-fault circuitry, press and hold the Test button, if the circuit passes, the Amber LED will blink rapidly.

System Alarm

If the Red and Amber LEDs are blinking alternately, the heating cable system is in alarm. (Temperature sensor failure or high/low temperature alarm.) Check the ECW-GF controller for the displayed error.

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