RADIANT HEATING SYSTEMS

UPONOR CLIMATE CŎNTROL™ UNIVERSAL NETWORK SYSTEM PRESSURE SWITCH

INSTRUCTION SHEET

System Pressure Switch

The Pressure Switch (A9012004) is an optional part that can be installed on any closed loop heating system to monitor system pressure. This part is compatible with the Uponor Climate Cŏntrol™ Network System and will signal an event or alarm when the system pressure falls below 7 psi.

Getting Started

Check the contents of this package. If the contents are damaged, please contact your Uponor sales representative or distributor for assistance.

The package includes:

- System Pressure Switch (A9012004)

Tools and Parts Required

- RJ45 crimper and connectors
- Cable tester
- Wire cutter and stripper
- 1/8" Allen wrench for pressure sensitivity adjustment

Installation

Mounting the Unit

The System Pressure Switch comes with a 1/4-inch male pipe thread connection and screws into any tapping of the system. Apply Teflon tape or thread sealant to the sensor threads prior to installation.

Note: Do not install into a well as the well will isolate the sensor from changes in system pressure.

Caution: Before performing any wiring, disconnect the electrical power to the system to prevent electrical shock and damage to the device.

Note: Ensure all wiring complies with local electrical codes.

Communication Cable

The System Pressure Switch connects the sensor to the Primary Equipment Control via a single RJ45-terminated Cat5e cable on the Climate Cŏntrol Universal Network System.

Configuration

The System Pressure Switch must be set up using the Uponor Configuration Tool (UCT) for the Network System to recognize it.

Calibration or Pressure Setting

The System Pressure Switch comes with a default setting of 7 psi. The sensitivity range is adjustable from 3 to 12 psi.

Follow these steps to change the default setting.

1. Use a 1/8" Allen key and remove the set screw in the top of the pressure switch.
2. Insert the Allen key into the hole left by the set screw.
3. Adjust the inner screw to change the setting. Each rotation of the screw equals approximately 1 psi. Turn clockwise (CW) to increase the minimum pressure setting. Turn counterclockwise (CCW) to lower it.

Indicators

The light-emitting diode (LED) on the Primary Equipment Control (PEC) for the System Pressure Switch provides the following system information.

Indicator	Definition
On	The sensor is active and pressure in the system is normal or above the minimum setting.
Off	The sensor has not been activated via the configuration software.
Flashing	Indicates one of the following conditions: • The sensor is not connected to the PEC. • The sensor is detecting a condition lower than the minimum pressure setting.

Table 1: Indicators

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