CENTURION® WATER HEATER START-UP FORM

*Please complete **ONE (1) form for each UNIT** at the site and return to PVI for warranty validation within 30 days of start-up. After completion, e-mail this form to: **CUSTOMERCARE@PVICOM**.*

Please ensure that the Edge Firmware is updated as the first step in the startup process

Completed By:_____ **Date:**_____

Location

Installation Name: _____   Technician: _____

Street Address: _____   Company: _____

City, State, Zip: _____   Phone #: _____

PVI Sales Rep: _____   **UNIT SERIAL #:** _____

Units

Registered Unit is a CEN-   1600 ☐   2000 ☐   1600P ☐   2000P ☐

Quantity of Units at Job Site   _____   _____   _____   _____

Combustion Calibration

NOTE: Consult Chapter 4 of CENTURION Installation, Operation & Maintenance Manual OMM-0153, for proper oxygen (O_2) settings at the 18% calibration point. Also, provide the data shown in the table below for valve positions of 30%, 40%, 50% 60%, 70%, 80% and 100%, if possible.

Ambient combustion air temperature during calibration: _____°F

Static Gas Pressure Upstream of SSOV: _____in. W.C. @ 100%

Gas Pressure downstream of the SSOV at 100% fire rate: _____inches W.C.

Valve Position	Oxygen (O_2) (%)	Carbon Monoxide (CO) (ppm)	Nitrous Oxide (NOx) (ppm)	Blower Drive Voltage (Vdc)	Flame Strength (µA)	Supply Gas Pressure (in. W.C.)	Manifold Gas Pressure (in. W.C.)
18%							
30%							
40%							
50%							
60%							
70%							
80%							
100%							

Temperature Calibration for Centurion Water Heater

Note: Consult Chapter 4 of OMM-0153 for temperature calibration procedure.

1. Water Heater setpoint? _____ °F

2. Minimum load adjustment control setting? _____

3. Maximum load adjustment control setting? _____

4. Lower aquastat setting? (Typically set 20°F above unit set point) _____ °F

Water Heater Management (WHM) Set-Up

1. Is RS485 (Modbus) wiring "Daisy-Chained" between units? ☐ Yes ☐ No

2. Are Sequencing Valves installed? ☐ Yes ☐ No

3. Are terminating resistors set to "ON" on the first and last units? ☐ Yes ☐ No

4. What is the Cascade Baud Rate? _____

5. What is the Water Management Setpoint? _____

6. What is the Next On Valve Pos? _____

7. What is the Next Off valve Pos? _____

8. What is the SSD address? _____

9. What is the SSD Temp Format? _____

Network Configuration

Name: _____   Gateway Model: ProtoNode (Serial)

Phone Number: _____   ProtoNode (Lon)

E-Mail Address: _____

JobName: _____   Edge Controller:

Input wiring termination to the Edge Controller or Gateway translation device (Check one)

- EIA-485 (2 wire)
- EIA-485 (4 wire)
- EIA-232

Building Automation System (BAS) protocol (Check one)

- BACnet:
    - IP:
    - MS/TP:
- Johnson Controls - N2:
- LonWorks:
- Modbus:
    - TCP:
    - RTU:

What Baud Rate. (Check One):

- 156,000   - 19,200
- 76,800   - 9,600
- 38,400   - Other _____

BAS Device Address #'s _____

N2 Device Node ID _____

   OR:

BACnet Device Instance #'s _____

BACnet Network Number _____

BACnet IP Address _____

   OR:

LonWorks Program ID _____

5/11/2023

ADDITIONAL NOTES:

5/11/2023