PT ELECTRONICS, INC.

PT-OD1100

OnDemand Domestic Hot Water Recirculating Pump Control

Pump Runtime Reduced as much as 80%-90%
Reduce Hot Water Gas Consumption as much as 30%*

*Based on Study Results performed by Department of Energy / Gas Technology Institute Emerging Technology Program

Quick Payback Period
Efficiency at its Best

BENEFITS

Non-Invasive Installation
▌ No Plumbing or Pipe Fitting Required

Energy Efficient
▌ Reduce energy consumption ▌ Gas and Electric

Building Automation System Integration
▌ Serial RS485 ModBus ▌

Modular Design
▌ Field repairable ▌ Plug and Play Components

Multiple Modes of Operation
▌ OnDemand - Aquastat - Override

Warranty
▌ 2 Year Warranty ▌

HOW DOES IT WORK?

Traditional Domestic Hot Water recirculating pumps operate 24Hrs/7Days a week to only facilitate Hot Water at the fixture instantly. Continuous recirculating pumps often waste as much as 30% more gas due to heat loss associated with constant water circulation.

The PT-OD1100 eliminates the need to operate the recirculating pump 24/7 by utilizing a NON-INVASIVE method. Using a high accuracy surface mount strap-on sensor as a Demand Flow Indicator and a High Accuracy surface mount strap-on sensor on the return line the recirculating pump operates on an OnDemand Function.
Recirculation Pump time is reduced drastically by energizing the pump only if:

- Demand is Sensed (Hot Water Draw)
&
- Recirculating loop temperature drops below a User Setpoint

COMPREHENSIVE FEATURES

- Backup Circuit Built-In
In a case of sensor fault the system will automatically energize the recirculating pump and run on Override Mode.
- Pump Runtime
Built-In Runtime feature that allows the system to keep track of the recirculating pump minutes of operation.
- Domestic Hot Water XLearn Capable (Future Feature Update)
(Smart Domestic Hot Water Scheduling)
- Datalog Function Capable
Datalog feature keeps track of Setpoints, Real Runtime Return, Flow, and Supply Temperatures. OnDemand Status; Active/Inactive, & Pump Runtime. Each of these datapoints are Time Stamped and provided on a CSV file stored locally on a MicroSD card (User Provided).

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Please visit our website for a complete listing and to learn more about PT Electronics products.   PT-279R4