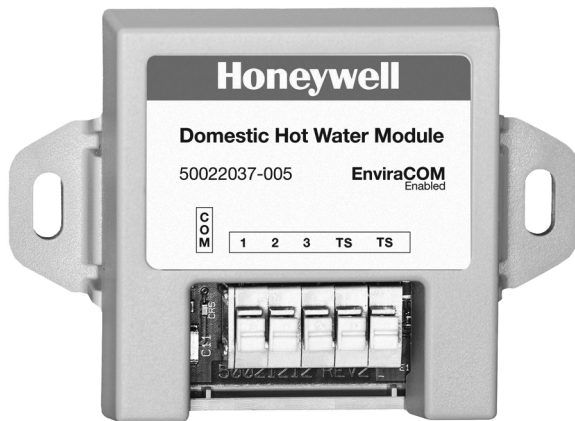


Domestic Hot Water Module

INSTALLATION INSTRUCTIONS



APPLICATION

The Domestic Hot Water (DHW) Module, when connected to the 32003971-003 General Purpose Temperature Sensor, communicates domestic hot water usage information from an indirect tank to the Honeywell AquaReset™ enabled Electronic Aquastats®, including the L7224/48, via the EnviraCOM™ 3-wire bus to optimize boiler efficiency. The DHW Module enables the Aquastat, when operating under outdoor reset command, to prioritize domestic hot water requests by driving the boiler temperature to High Limit (HL) and ensuring an ample hot water supply. When the domestic hot water request is complete, the DHW Module informs the Aquastat that it can revert back to the outdoor temperature curve for boiler temperature setting.

SPECIFICATIONS

Electrical Ratings:

Voltage: 24 Vac, 60 Hz.

Environmental Ratings:

Temperature: -30°F to +150° F (-34° C to +66° C)
Humidity: 0 to 95% relative humidity, non-condensing.

Replacement Parts:

198799Z Temperature Sensor
32003971-003 Temperature Sensor Kit includes mounting hardware

FEATURES

- Prioritizes domestic hot water requests
- Informs when the domestic hot water request is complete
- Easy push wire terminals that provide a secure lock with no need to screw in wires.
- Simple low-voltage, 5-wire installation (3 EnviraCOM, 2 temperature sensor)
- EnviraCOM™ Enabled

INSTALLATION

When installing this product...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and marked on the product to make sure the product is suitable for the application.
3. The installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.
5. The Domestic Hot Water (DHW) Module can be wall-mounted in any orientation desired or dictated by the surroundings.
6. The holes are sized for the #6 sheet metal screws.
7. Precise leveling of the product is not required.
8. Mount the 32003971-003 Temperature Sensor on the tank outlet pipe within 2 inches from the tank using the wire straps included in the sensor kit. See Fig. 1.

NOTE: To insure proper operation of the DHW Module, connect the sensor as close as possible to the water tank. The farther from the tank the sensor is located, the slower the DHW may react to a domestic hot water draw. Insulating the sensor on the pipe may improve overall functionality of the DHW Module and overall system performance. For more information on the temperature sensor, see Domestic Hot Water Module Sensor Installation Instructions, Form #69-2344.



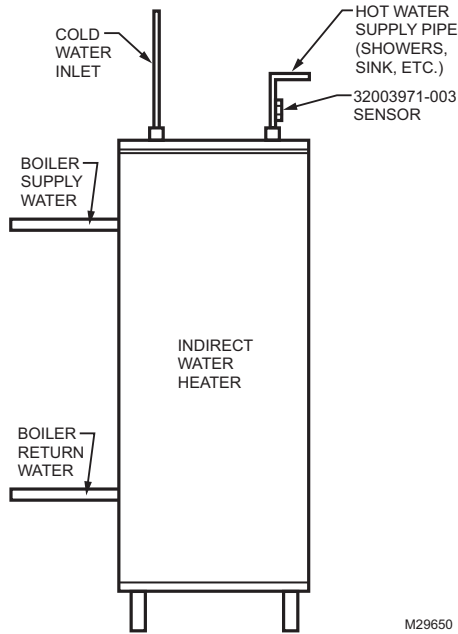


Fig. 1. Installing the 32003971-003 Temperature Sensor.

WIRING

CAUTION

Electrical Interference (Noise) Hazard.
Can cause erratic system operation.
 Keep wiring at least one foot away from large inductive loads such as motors, line starters, lighting ballasts and large power distribution panels.
 Use shielded cable to reduce interference when rerouting is not possible.

1. Wire the EnviraCOM bus terminals 1,2, and 3 on the DHW Module to the 1,2, and 3 terminals on the EnviraCOM™ enabled Aquastat, thermostat (if available), or anywhere on the bus where access is available and convenient. (See Fig. 2).
2. Connect the two 32003971-003 Temperature Sensor wires to the TS terminals on the DHW Module.

NOTE: Shielded cable may be required if routing the Temperature Sensor wires near/along high voltage lines, motors or other electrical noise-generating devices. Do not extend EnviraCOM cabling beyond 1000 feet. Signal degradation may occur.

3. See C7089U Installation Instructions (Form Number 69-1709EFS) for additional sensor installation instructions and specifications.

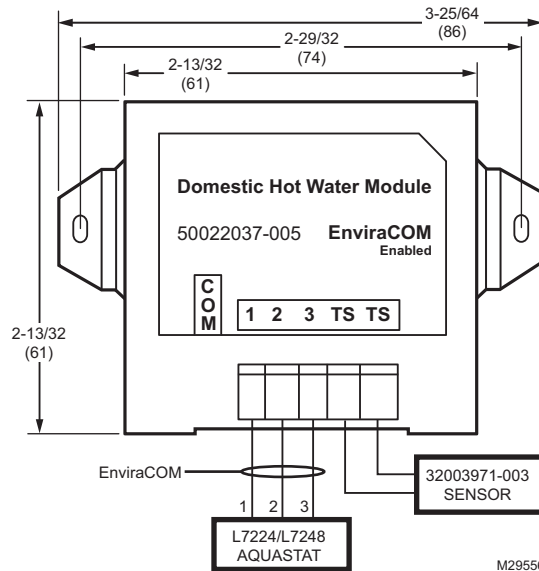


Fig. 2. 50022037-005 Domestic Hot Water (DHW) Module wiring diagram.

OPERATION

General

The 50022037-005 Domestic Hot Water Module is a device which, when connected to an AquaReset enabled Electronic Aquastat with a 50022037-002 Outdoor Reset Module via the EnviraCOM™ communication bus, enables the control to prioritize a domestic hot water demand. The Aquastat resets the present boiler temperature setpoint to the High Limit in order to ensure hot water for domestic use is available. Once the domestic hot water demand is satisfied, the DHW Module directs the Aquastat to reset the boiler temperature setpoint to once again follow the outdoor reset curve.

Automation and Control Solutions

Honeywell International Inc.
 1985 Douglas Drive North
 Golden Valley, MN 55422
 customer.honeywell.com

Honeywell Limited-Honeywell Limitée
 35 Dynamic Drive
 Toronto, Ontario M1V 4Z9

