

R (24VAC)  
PCB has two, Rx and Rz.  
X1, X2, X3 wired on Rx  
Z1,Z2 wired on Rz  
W and ZX each has PCB jumper

furnace

thermidstat

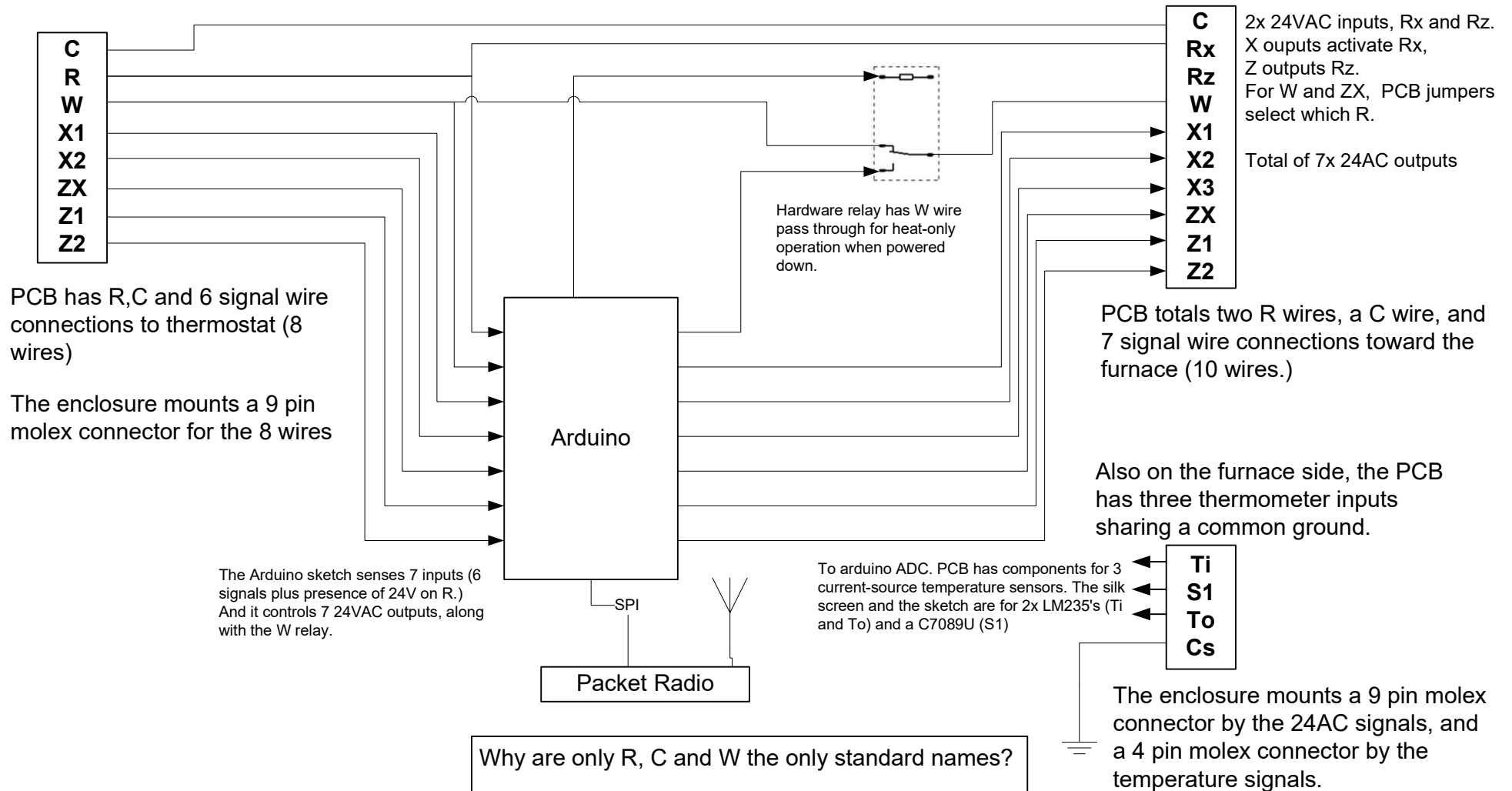
Typical pins

Typical pins

# Packet Thermostat Block Diagram

To thermostat

To HVAC



The enclosure mounts 9 pin molex connectors of opposite gender for the thermostat and the furnace. This allows the possibility of removal of the device and plugging the furnace directly to the thermostat

Why are only R, C and W the only standard names?

R and C are 24VAC. W is specially wired on the PCB through a hardware relay to support heat-only operation while the PCB is powered off.

The other 5 signals are not named O, B, Y, G, etc. because you decide how the Arduino controls them, and how to wire them to the enclosure's molex connectors.

Note the total of one more PCB connection, 14, than there are molex pins, 13. A given deployment must choose one PCB connection not connected to a molex pin.