

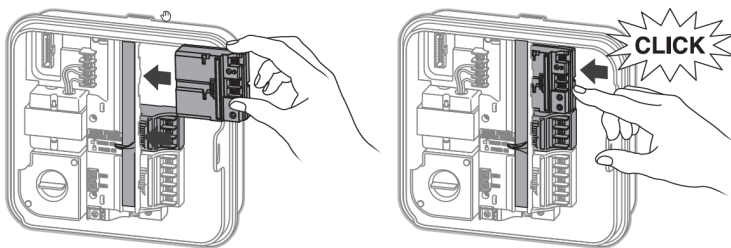
# HPC - Installing Decoder Module

The HPC controller is supplied with a base 4-station module. This controller is also compatible with the EZ Decoder System (EZDS) for hybrid conventional and two-wire operations. Add a Decoder Module (PC-DM) to enable control for up to 32 total stations. This system uses the same EZ-1 decoders used with ICC2 and HCC controllers.

**IMPORTANT:** The controller firmware must be 4.25 or greater for these modules to be compatible. [Learn more](#) <sup>[1]</sup>

## Installing Additional Station Modules

1. Slide the **POWER LOCK** into the **POWER OFF** (unlocked) position. Insert any additional station modules into the appropriate output slots.
2. Once all of the modules are in place, slide the **POWER LOCK** into the **POWER ON** (locked) position to energize and secure the modules into the controller.
3. The HPC will automatically recognize the correct number of stations. In some cases, it may be necessary to press the reset button on the back of the face pack or cycle power to the controller.



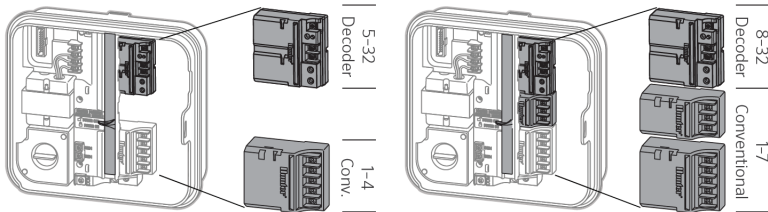
## Installing the PC-DM Decoder Module

The PC-DM can only be installed in the last two station output slots (similar to PCM-900 and PCM-1600 installation). The PC-DM will not physically fit or operate in any other station output slot.

**IMPORTANT:** While the addition of this module increases the total station count to 32, the first 4 stations cannot be programmed as decoders and must be wired conventionally to the 4-station master module. This leaves stations 5–32 available for EZ decoder operation. This allows for hybrid conventional/decoder operation. If only EZ decoders are to be used,

there are 28 total stations available, and the first station must be programmed as station 5.

As shown below, if stations 1–4 are conventionally wired, then stations 5–32 would be available for two-wire via PC-DM. Similarly, a 3-station PCM-300 expansion module could be added to the second station output slot, which would allow for stations 1–7 to be conventionally wired, and stations 8–32 available for two-wire.

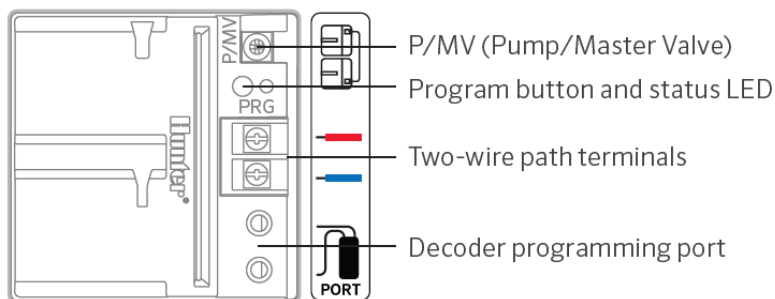


### EZ-1 Decoder Connections and Programming

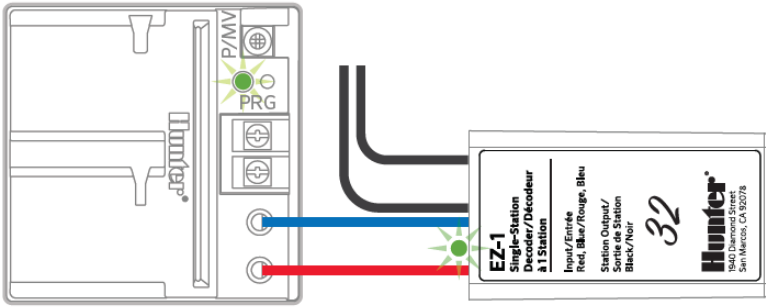
1. Remove wire insulation, and insert red and blue wires from the decoder into the programming port (it doesn't matter which wire goes into which hole).
2. Manually start the station you want to assign to the decoder. This can be done using the controller face panel or remote control, if so equipped.
3. When the station is running, push the "PRG" button on the PC-DM. The LED on the PC-DM and on the EZ-1 decoder will flash green once to indicate the decoder has been programmed.
4. To assign a decoder as a P/MV, complete steps 1–3; however, don't start any stations.

**NOTE:** To activate a P/MV via decoder, connect a jumper wire from the P/MV on the PC-DM to the P/MV terminal on the 4-station master module (as shown in the icon next to the P/MV terminal).

### CONNECTIONS:



### PROGRAMMING:



## WIRING TABLE

American Wire Gauge	Distance, single solenoid (ft.)	Distance, 2 solenoids per output
18 AWG	908	454
16 AWG	1,446	723
14 AWG	2,292	1,146
12 AWG	3,650	1,825

### Note

Distances in the Wiring Table are calculated based on 60 Hz for American Wire Gauge, with a wire temperature of 120°F and a 10% safety factor.