

TECHNICALLY SPEAKING

By Ed Brink, Meier Supply Training and Technical Specialist



2016 Issue 1



Mitsubishi MVZ Function Settings

When the MVZ air handler is used with the electric heat kit or when adjustments to the operation of the equipment are needed you MUST have a MKH1 wireless controller or a PAR 31 wired controller to make these adjustments. Adjustments are made using the function settings of the controller. To enter the function setting menu of each controller please refer to the technical service manual or install manual for the controller. Manuals can be found on www.Mylinkdrive.com. If you have questions or require further assistance please contact your local Meier Supply Representative.

Below is a brief overview of the most common field adjusted functions settings. When using the MKH1 wireless controller function settings are triple digit numbers (101, 102, 108, 111 & 123). When using the PAR 31 wired controller the function settings are double digit numbers (01, 02, 08, 11 & 23). Though the numbers are different the functions and setting are the same.

Auto Restart on Power Failure: Function 01 / 101

- Setting 1: Disables auto restart feature (factory setting)
- Setting 2: Enables auto restart feature

Temperature Sensing Location:

PAR 31 Wired Controller Function 02:

- Setting 1: The return air thermistor is used to sense temperature and control the unit
- Setting 2: Used when grouping multiple air handlers to a single controller
- Setting 3: The controller thermistor is used to sense temperature and operate the air handler

MKH1 Wireless Controller Function 173:

- Setting 0: The return air thermistor is used to sense temperature and control the unit
- Setting 1: The controller thermistor is used to sense temperature and operate the air handler

External Static Pressure Setting: Function 08 / 108

- Setting 1 sets the blower for .3" WC ESP
- Setting 2 sets the blower for .5" WC ESP (factory Setting)
- Setting 3 sets the blower for .8" WC ESP (use when the electric heat kit is installed)

Fan Operation when thermostat is satisfied in the heating mode: Function 25 / 125

Setting 1: Fan will operate at extra low speed when there is no call for heat

Setting 2: Fan will stop when there is no call for heat

Setting 3: The fan speed is set to the speed selected by the controller (auto fan or manual setting)

Electric Heat Modes of Operation: Function 11 / 11 & 23 / 123 Are used to set up the staging and operation of the electric heat kit. Modes, operation and settings are as follows:

Basic Mode: (Single stage operation)

123/23 set to 1, 111/11 left at initial setting

- Electric heat is activated when sensing temp drops 4.5 degrees from set point
- Once activated Electric heat stays on until the thermostat is satisfied
- fans and electric heat turn off on unit error and during defrost

Comfort Mode: (2 stage operation)

123/23 set to 2, 111/11 set to 1

- 1st Stage
 - On when sensing temperature drops 1.8 degrees from set point
- 2nd Stage
 - On when sensing temperature drops 2.7 degrees from set point
 - Once activated Electric heat stay on until the thermostat is satisfied
 - Fans and electric heat turn off on unit error and defrost

Economy Mode: (2 stage operation)

123/23 set to 2, 111/11 set to 2

- 1st Stage
 - On when temp drops 3.6 degrees from set point
- 2nd Stage
 - On when temp drops 4.6 degrees from set point
 - Fans and electric heat turn off on unit error and defrost
 - Once activated Electric heat stay on until the thermostat is satisfied
 - Both Stages of heat are de-energized when sensing temperature is 1.8 degrees below controller set point

Available training in your area can be found at:

<http://www.meiersupply.com/content.aspx?file=customerpages/UnivTrain.htm>

** For additional support [contact Meier Supply at any of our locations](#) **



If you have any questions, please contact:
Ed Brink, Meier Supply Technical and Training Specialist
Meier Supply Co., Inc.
275 Broome Corporate Parkway, Conklin, NY 13748
email: EBrink@MeierSupply.com
phone: 607-797-7700

