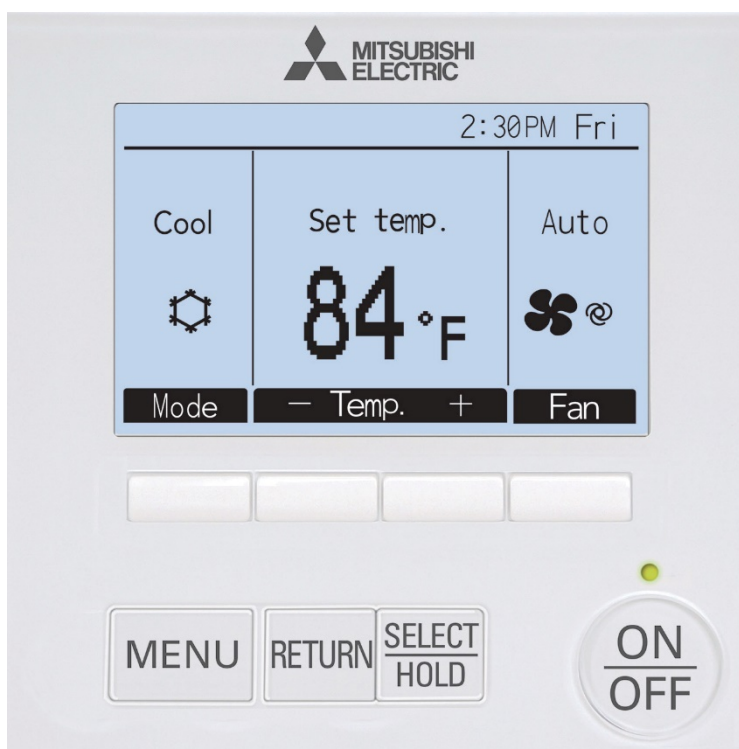


Application Note: 3050



How to configure the Function Settings on a Deluxe MA

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Overview


The purpose of this Application Note is to illustrate the steps required in configuring the Deluxe MA's Function Settings, and to provide a brief explanation of each setting.

Notes

- The contents of this document apply to all Deluxe MA models: (PAR-31MAA, PAR32MAA, PAR33MAA, PAR40MAA)
- The availability of various Function Settings is dependent upon the compatibility of the connected equipment.
- The specific Function Settings available for each unit are listed in the outdoor unit's Service Manual.
- The terms 'Mode' and 'Function Setting' are used interchangeably.

How to configure the Function Settings

Steps

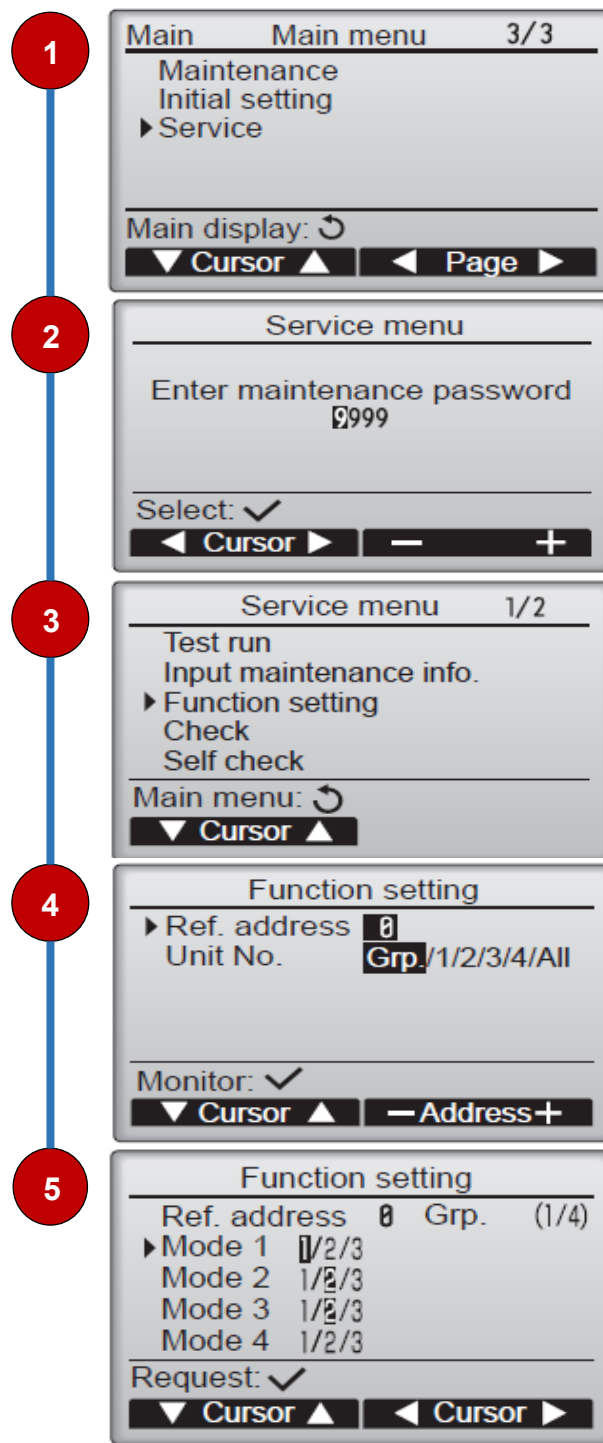
1. Turn the controller **off**
2. Press the  button
3. Scroll down and select **Service**
4. Enter the default password – **9999**
5. Select **Function Setting**
6. Enter the outdoor unit's address
 - Leave at **0** unless the address has been changed at the outdoor unit.

Choose the desired Function Setting by referencing the tables in the following pages.

Troubleshooting

Request Rejected may appear if:

- The desired Function Setting is incompatible with the equipment that it is connected to.
 - E.g. if the controller is connected to an M-series unit.
- The system has not been addressed, or has been addressed incorrectly.
 - This only applies when multiple systems are connected.
- The control wires between two indoor units are crossed (polarity).
 - This only applies when multiple systems are connected.



1 Main menu 3/3
Maintenance
Initial setting
▶ Service
Main display: ↻
▼ Cursor ▲ ◀ Page ▶

2 Service menu
Enter maintenance password
9999
Select: ✓
◀ Cursor ▶ - +

3 Service menu 1/2
Test run
Input maintenance info.
▶ Function setting
Check
Self check
Main menu: ↻
▼ Cursor ▲

4 Function setting
▶ Ref. address 0
Unit No. Grp./1/2/3/4/All
Monitor: ✓
▼ Cursor ▲ - Address +

5 Function setting
Ref. address 0 Grp. (1/4)
▶ Mode 1 1/2/3
Mode 2 1/2/3
Mode 3 1/2/3
Mode 4 1/2/3
Request: ✓
▼ Cursor ▲ ◀ Cursor ▶

Function Settings – GRP

The following function settings are available when selecting GRP

| Mode No. | Indoor Unit Compatibility | Mode Setting | Function Settings | Setting No. |
|----------|---------------------------|--|--|-------------|
| 01 | All | Automatic recovery after power failure | Disable | 1 |
| | | | Enable (1-4 minute delay) | 2 |
| 02 | All | Room temperature sensing location | Average return air sensor temperature reading of indoor units in operation | 1 |
| | | | Sense temperature at the indoor unit | 2 |
| | | | Sense temperature at the controller (available with MHK2 and wired controllers) | 3 |
| 03 | All | Lossnay connection | Unavailable | - |
| | | | The Lossnay is not supplying fresh air to the indoor unit | 2 |
| | | | The Lossnay is supplying fresh air to the indoor unit | 3 |
| 04 | All | Voltage Selection | 230v AC | 1 |
| | | | 208v AC | 2 |
| 05 | PEAD | Auto Mode | Enable | 1 |
| | | | Disable | 2 |

Function Settings – ALL

The following function settings are available when selecting ALL

| Mode No. | Indoor Unit Compatibility | Mode Setting | Function Settings | Setting No. |
|----------|---------------------------|---|--|-------------|
| 07 | All | Filter Notifications | Every 100 hours | 1 |
| | | | Every 2500 hours | 2 |
| | | | No filter notifications | 3 |
| 08 | SLZ PCA PLA PKA | Default Fan Speed | Low (quiet) | 1 |
| | | | Medium (standard) | 2 |
| | | | High (high ceiling) | 3 |
| | SEZ PVA SVA PEAD | Static Pressure | Refer the last page of this document for details | - |
| 09 | PLA | Air Outlets (see PAR-40 technical manual for details) | Use all four outlets | 1 |
| | | | Use only three outlets | 2 |
| | | | Use only two outlets | 3 |
| 10 | PLA PCA | High performance filter installed | No | 1 |
| | | | Yes | 2 |
| | SEZ PVA SVZ PEAD | Static Pressure | Refer the last page of this document for details | - |
| 11 | PLA | Vane Settings (see indoor unit service manual for details) | Downward airflow | |
| | | | Angled airflow | |
| | | | Horizontal airflow (do not use in humid spaces) | |

Function Settings – ALL

The following function settings are available when selecting ALL

| Mode No. | Indoor Unit Compatibility | Mode Setting | Function Settings | Setting No. |
|----------|---------------------------|---|--|-------------|
| 11 | SLZ PCA | Vane Settings (see indoor unit service manual for details) | Unavailable | - |
| | | | Angled airflow | 2 |
| | | | Horizontal airflow (do not use in humid spaces) | 3 |
| | SVZ PVA PEAD | Backup Heat | Disable backup heat (CN24) | 1 |
| | | | Enable backup heat (CN24) | 2 |
| 12 | SLZ-KF PLA-EA7 | Mounting position of the i-see sensor (see indoor unit service manual for details) | Position #1 | 1 |
| | | | Position #2 | 2 |
| | | | Position #3 | 3 |
| 14 | PLA PCA PKA | Draft Prevention (vane stays angled in upward position until the coil reaches the desired temperature) | Low 75° - 82° | 1 |
| | | | Medium 82° - 89° | 2 |
| | | | High 95° - 100° | 3 |
| 15 | SLZ SEZ SVZ | Frost Prevention | Unit will shut down on frost prevention if the coil reaches 36° | 1 |
| | | | Unit will shut down on frost prevention if the coil reaches 37° | 2 |
| | PLA PCA PKA PEAD | | | |

Function Settings – ALL

The following function settings are available when selecting **ALL**

| Mode No. | Indoor Unit Compatibility | Mode Setting | Function Settings | Setting No. | |
|----------|--|----------------------|--|--|---|
| 15 | SLZ SEZ SVZ PLA PCA PKA PEAD | Frost Prevention | Unit will shut down on frost prevention if the coil reaches 36° | 1 | |
| | | | Unit will shut down on frost prevention if the coil reaches 37° | 2 | |
| 16 | SVZ PVA | Humidifier Operation | CN25 will output 12v DC when the system is running in heat mode | 1 | |
| | | | CN25 will output 12v DC when the system is set to heat mode | 2 | |
| 17 | PLA PCA PKA | Defrost Control | Standard | 1 | |
| | | | High Humidity | 2 | |
| 23 | PLA-BA | Vane Swing | Swing | 1 | |
| | | | Wave Airflow | 2 | |
| | | | Not supported | 1 | |
| | PCA PKA | Vane Swing | Swing | 2 | |
| | | | Backup Heat settings | CN24 will output 12v DC when the room temp. is 4.5° F less than the set temperature | 1 |
| | | | | CN24 will output 12v DC when the room temp. is 1.8° F less than the set temperature | 2 |

Function Settings – ALL

The following function settings are available when selecting **ALL**

| Mode No. | Indoor Unit Compatibility | Mode Setting | Function Settings | Setting No. |
|---|---|--|---|-------------|
| 23 | SVZ PVA PEAD | Backup Heat settings | Backup Heater disabled during Defrost/error | 1 |
| | | | Backup Heater enabled during Defrost/error | 2 |
| 24 | SLZ PLA SEZ PCA SVZ PKA PEAD | Room temperature offset for height during Heat Mode | Increases by 7.2° F | 1 |
| | | | Not supported | 2 |
| 25 | SLZ PLA SEZ PCA SVZ PKA PVA PEAD | Fan speed setting after set point has been met in Heat Mode | Extra low | 1 |
| | | | Stop | 2 |
| | | | The current controller setting | 3 |
| 26 | SLZ-KF PLA-AA PLA-EA7 | 3D i-See sensor Offset settings | Low = 8.9' or less | 1 |
| | | | Standard = 8.9' – 11.5' | 2 |
| | | | High = 11.5 – 14.8' | 3 |
| | SVZ | ERV Control (see indoor unit service manual for details) | CN2C will output 12v DC during normal operation | 1 |
| CN2C will output 12v DC even when the unit is stopped | | | 2 | |
| 27 | SLZ PLA SEZ PCA SVZ PKA PVA PEAD | Fan speed setting after set point has been met in Cool Mode | The current controller setting | 1 |
| | | | Stop | 2 |
| | | | Extra Low (SLZ+PLA only) | 3 |
| 28 | SLZ PLA SEZ PCA SVZ PKA PEAD | Abnormal Pipe Temperature Detection (disabling this function is not recommended) | The controller will display P8 if an abnormality is detected | 1 |
| | | | The controller will not display P8 if an abnormality is detected | 2 |

Static Pressure Settings

The following function settings will determine the static pressure settings of the indoor unit

| Indoor Unit Compatibility | Static Pressure Settings | Mode Number 08 | Mode Number 10 |
|------------------------------------|--------------------------|----------------|----------------|
| SEZ | 0.02" | 1 | 2 |
| | 0.06" | 1 | 1 |
| | 0.14" | 2 | 1 |
| | 0.20" | 3 | 1 |
| PEAD | 0.14" | 2 | 1 |
| | 0.20" | 3 | 1 |
| | 0.30" | 1 | 2 |
| | 0.40" | 2 | 2 |
| | 0.50" | 3 | 2 |
| SVZ PVA Upflow Horizontal | 0.30" | 1 | 1 |
| | 0.50" | 2 | 1 |
| | 0.80" | 3 | 1 |
| SVZ PVA Downflow | 0.02" | 1 | 2 |
| | 0.50" | 2 | 2 |
| | 0.60" | 3 | 2 |