APPLICATION NOTES

MITSUBISHI ELECTRIC
COOLING & HEATING
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**Application Note 3024:
PAR-31MAA**

PAR-31MAA

Introduction:
The PAR-31MAA remote controller is used for M&P Series units in the US and Latin Americas for the following applications where the MHK1 or PAC-YT53CRAU will not meet project requirements. CITY MULTI applications may be possible but have not been tested and are not supported in the US and Latin America.

Hardwire Connection to M-Series:
If the PAR-31MAA is used with M-Series a MAC-333IF is required (see MAC-333IF Manuals for how to connect MA style remote controller). M-Series grouping rules apply.

Hardwire Connection to P-Series:
If the PAR-31MAA is used with P-Series (see P-Series Manuals regarding connection to MA style remote controllers). P-Series **grouping** rules apply.

Scheduling:
The PAR-31MAA has the ability to set ON/OFF times and Space Temperature Set Point 8 times per day and 7 days per week (See PAR-31MAA Instruction book for details).

Lead-Lag (rotation function) with P-Series:
The PAR-31MAA can be used to set rotation and backup settings in two P-Series units.

All specifications and functions available depend on connected equipment and are subject to change without notice

PAR-31MAA Back Up and Rotate

1.
Select *Main Menu* by pressing: 🗐

In the main menu screen move the cursor using *F1/F2* to *Service* option and press: ✓

2.
Enter *maintenance password* (default is 9999)

3.
Move the cursor next to the *Check* option and press: ✓

4.
Then select *Request code* and press: ✓

5.
In the Request code screen enter the *outdoor unit address* and the appropriate *rotation setting* - see list on reverse.

Outdoor unit address is the same as the refrigerant

Request Code List

Rotation Setting

Setting No.(Request Code)	Setting Contents
No.1 (310)	Monitoring the request code of current setting
No.2 (311)	Rotation and Back-up off (Normal group control operation)
No.3 (312)	Back-up function only
No.4 (313)	Rotation ON (Alternating interval = 1 day) and back up function
No.5 (314)	Rotation ON (Alternating interval = 3 day) and back up function
No.6 (315)	Rotation ON (Alternating interval = 5 day) and back up function
No.7 (316)	Rotation ON (Alternating interval = 7 day) and back up function
No.8 (317)	Rotation ON (Alternating interval = 14 day) and back up function
No.9 (318)	Rotation ON (Alternating interval = 28 day) and back up function

2nd Stage Cut-in Setting

Setting No.(Request Code)	Setting Contents
No.1 (320)	Monitoring the request code of current setting
No.2 (321)	Cut-in Function OFF
No.3 (322)	Cut-in Function ON (Set point = Set temp. +4ºC(7.2ºF)
No.4 (323)	Cut-in Function ON (Set point = Set temp. +6ºC(10.8ºF)
No.5 (324)	Cut-in Function ON (Set point = Set temp. +8ºC(14.4ºF)

Additional Functional Settings

PAR-31MAA Functional Settings

Mode Number	Settings	Setting No.
2	Sensing space temp at the remote controller	3
8	Static pressure setting for SEZ and PEA models (0.20 setting 3)	3
8	Static pressure setting for PEAD models (0.60 setting 3)	3
23	Heater control deadband from 4.5 to 1.8 degree	2
25	Indoor fan off in thermal heating off	2
27	Indoor fan off in thermal cooling off	2

Functional Settings Steps:

1. Select *Functional setting* from service menu to bring up settings screen
2. Set addresses and unit number with the *F1* through *F4 buttons*, then press *SELECT* to confirm current setting

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