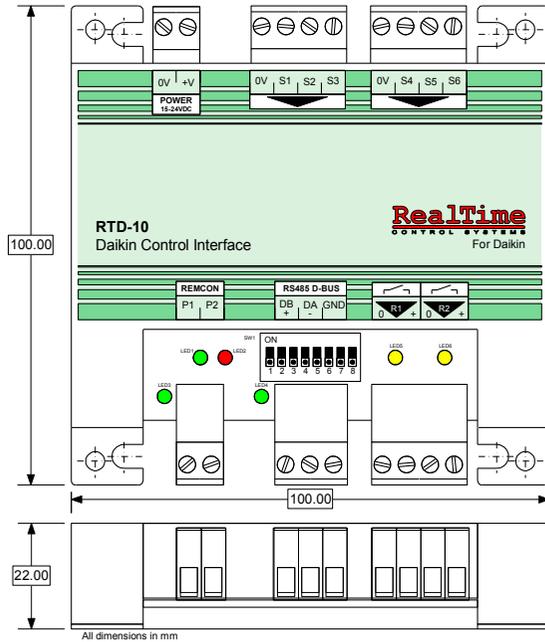


RTD-10 Control Interface

Field Programming Instructions



RTD-10 Description

The RTD-10 is a monitoring and control interface for Daikin VRV and Skyair ranges of air-conditioners*; and VAM and VKM ventilation units. The interface is compatible with all units that have a P1,P2 remote controller network connection and allows control of up to 16 units in a single group.

Inverting the Relays

To invert the relays use the DIP switches as shown in these instructions. Reset to factory configuration if the field programming (with the DIP switches) failed.

Note that inverting the relays is regarded as a custom configuration. Therefore the LED behaviour at start-up changes to indicate that the RTD-10 is custom configured.

Do not change the configuration unless necessary.

Warnings and Cautions



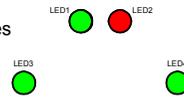
Do not exceed the specified fault relay ratings

Observe precautions for handling Electrostatic Sensitive Devices

Procedure

To reconfigure the relays enter the Field Programming Mode (steps 1 - 7).

LEDs 1 – 4 will flash 3 times



Now select the field configuration (Field 001 for inverting relays): see table on page 2.

Finally, store the new configuration with DIP switch 4 (ON and then OFF) and repower the RTD-10.

For Factory reset use Field 111 instead of Field 001.

Field Programming

RTD Field programming allows RTD operating parameters to be set in the field using the 8 position DIP switch mounted on the RTD.

ENTERING FIELD PROGRAMMING MODE

To enter field programming mode a sequence of switch positions must be entered in order. To begin the RTD should be powered down and switches 1,6, 1,7 and 1,8 switched to the ON position.

After powering up, follow the sequence of steps 2 to 7 in the following table, allowing at least 1 second between each step. When setting the switches for each step the switches do not have to be set in one go, each switch can be switched sequentially.

After completion of step 6 the LEDs 1 to 4 on the RTD should flash several times to indicate field programming mode has been selected.

Step	Action	
1	SW1,6,1,7,1,8 ON THEN Power-Up	
2	SW1,6,1,7,1,8 OFF	
3	SW 1,7,1,8 ON	
4	SW 1,7,1,8 OFF	
5	SW 1,8 ON	
6	SW 1,8 OFF	
7	LED 1 to 4 flash 3 times	FIELD PROGRAMMING ENABLED

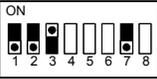
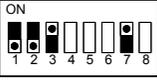
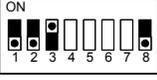
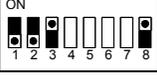
To exit out of Field Programming mode, remove power for 5 seconds and then re-power the device.

The RTD will remain in Field Programming mode for a maximum of 5 minutes after which it will revert to normal operation.

FIELD 001: Relay Configuration

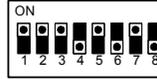
Field 001 is used to configure the Relay outputs of the RTD.

Each Relay can be configured to operate non-inverted (normal functionality) or inverted. If RTD Configuration Parameters have been customised then these will override the relay invert options and the Field Programming method should not be used.

Setting	Relay	Output
	R2	Non-Invert
	R2	Invert
	R1	Non-Invert
	R1	Invert

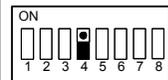
FIELD 111: Factory Reset

Writing a field value of 1010 causes the RTD to execute a full factory reset. All field values are reset to the default value of 1111, and all configuration parameters are reset to their factory defaults.

Setting	Action
	Select Factory Reset Command

Storing a Field Value

A new field value is stored by setting SW1.4 ON for 1 second and then setting SW1.4 OFF as shown in the following table. Unless storing a value the SW1.4 switch should remain in the OFF position.

Step	Action	
1	SW1.4 ON	
2	SW1.4 OFF Configuration Saved	