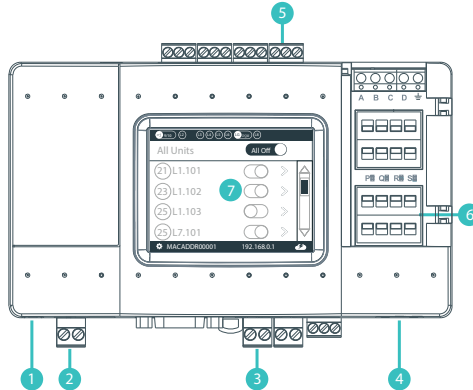


TDS20065
Quick Installation Guide

TDS20065



- 1 L8 – HVAC Line 8 (USB Host)
- 2 Power
- 3 L1 – HVAC Line 1
- 4 Ethernet Port
- 5 L7 – HVAC Line 7
- 6 DIP Switches P, Q, R, S
- 7 LCD Touch Screen

HVAC Daikin VRV — on L1

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC communication terminal's names*



* For Heat Recovery systems the connection is at outdoor units only.

* Polarity is not required on the HVAC communication line.

** Centralized (group) address required.

2 Connecting to the line plug

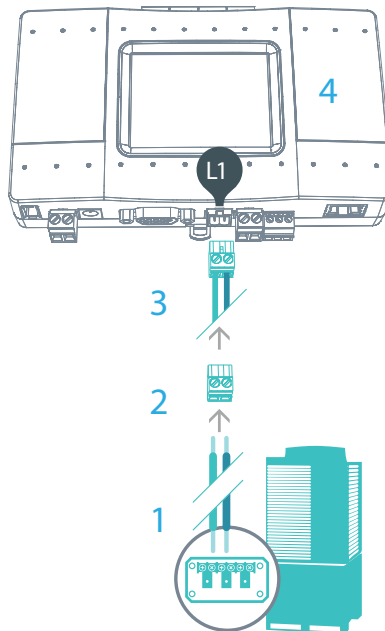
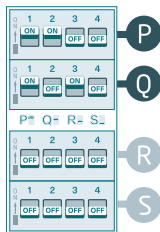
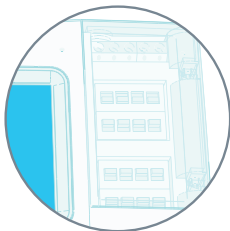
Secure the cables in the L1 line plug.

3 Plugging to the TDS20065

Insert the plug in to the TDS20065 L1 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRV HVAC system on L1



Daikin HVAC Terminal

HVAC Mitsubishi Electric VRF — on L1

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC communication terminal's names*



* For Heat Recovery systems the connection is at outdoor units only.

* Polarity is not required on the HVAC communication line.

2 Connecting to the line plug

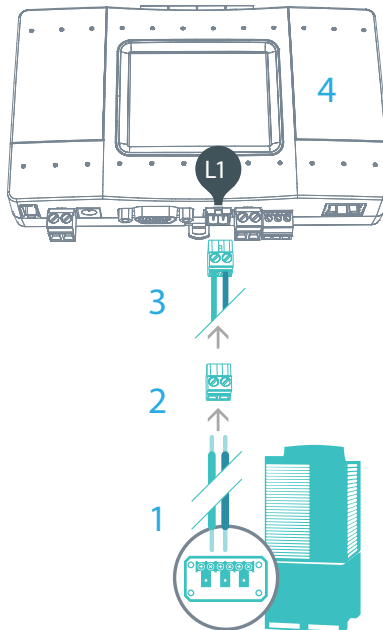
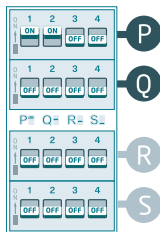
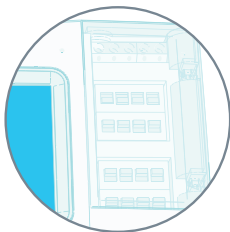
Secure the cables in the L1 line plug.

3 Plugging to the TDS20065

Insert the plug in to the TDS20065 L1 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L1



Mitsubishi Electric HVAC Terminal

HVAC Daikin Non-VRV — on L1

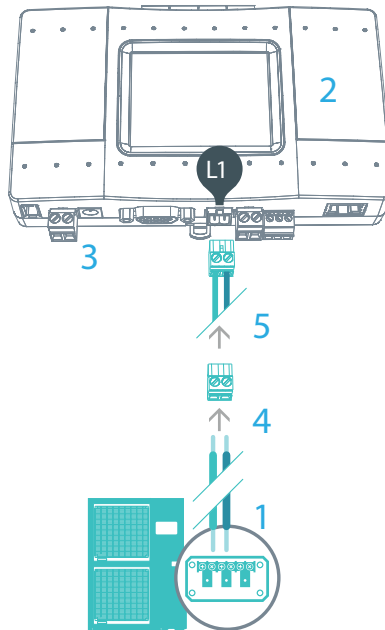
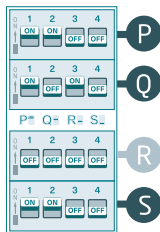
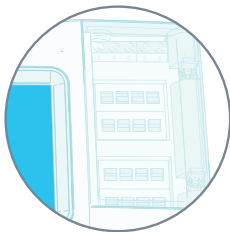


Changing the dip switches **S**, while DC voltage is present on L1, may damage the TDS20065.

For Daikin Non-VRV equipment, DC voltage supply by TDS20065 might be required for proper operation.

⚠ Before enabling DC output from TDS20065 make sure there is no DC voltage on HVAC communication line.

- 1 Measure DC voltage on HVAC communication line L1
- 2 If no DC voltage . **Daikin 14-16V DC** change the dip switches as shown below
- 3 Turn ON the power for TDS20065 and connect it to HVAC line.
- 4 Connect to the communication terminals on the HVAC equipment and secure the cables in the L1 line plug.
- 5 Insert the plug in to the TDS20065 L1 socket.



Daikin Non-VRV HVAC Terminal

HVAC Mitsubishi Electric Non-VRF — on L1

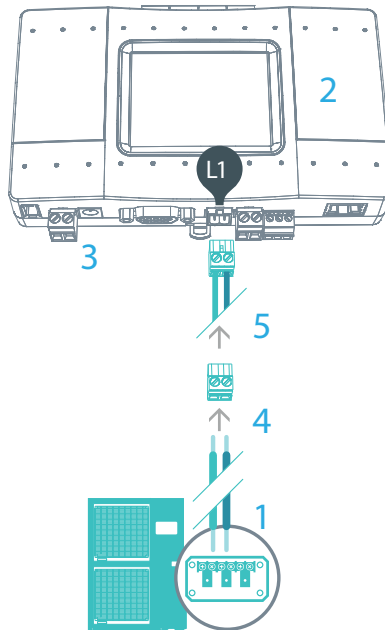
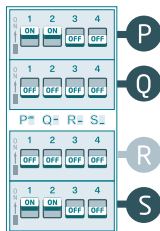
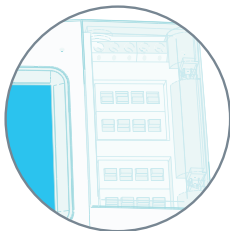


Changing the dip switches **S**, while DC voltage is present on L1, may damage the TDS20065.

For Mitsubishi Electric Non-VRF equipment, DC voltage supply by TDS20065 might be required for proper operation.

⚠ Make sure TDS20065 is disconnected from power and HVAC line.

- 1 Measure DC voltage on HVAC communication line L1
- 2 If no DC voltage . **Mitsubishi 28-30V DC** change the dip switches as shown below
- 3 Turn ON the power for TDS20065 and connect it to HVAC line.
- 4 Connect to the communication terminals on the HVAC equipment and secure the cables in the L1 line plug.
- 5 Insert the plug in to the TDS20065 L1 socket.



Mitsubishi Non-VRF HVAC Terminal

HVAC Panasonic/Sanyo VRF — on L1

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC communication terminal's names*

U1		 PN Panasonic / Sanyo Max. 64 indoor units
U2		

* For Heat Recovery systems the connection is at outdoor units only.

* Polarity is not required on the HVAC communication line.

2 Connecting to the line plug

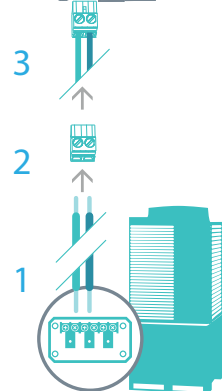
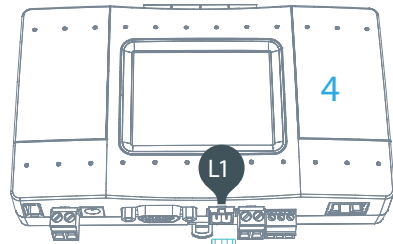
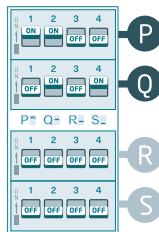
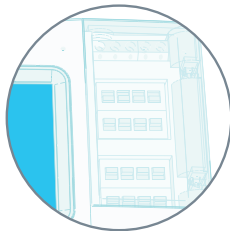
Secure the cables in the L1 line plug.

3 Plugging to the TDS20065

Insert the plug in to the TDS20065 L1 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L1



Panasonic / Sanyo HVAC Terminal

HVAC Toshiba VRF — on L1

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC communication terminal's names*



* For Heat Recovery systems the connection is at outdoor units only.

* Polarity is not required on the HVAC communication line.

2 Connecting to the line plug

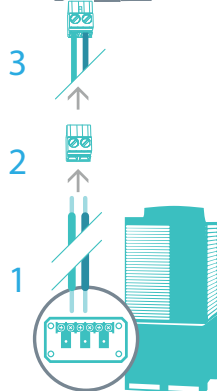
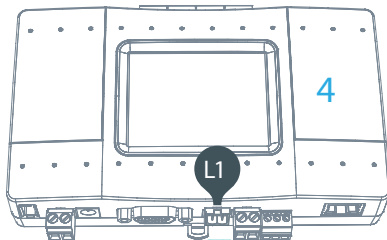
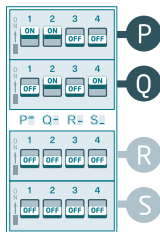
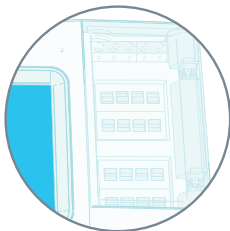
Secure the cables in the L1 line plug.

3 Plugging to the TDS20065

Insert the plug in to the TDS20065 L1 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L1



Toshiba HVAC Terminal

HVAC Hitachi (JCI) VRF — on L1

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC communication terminal's names*



* For Heat Recovery systems the connection is at outdoor units only.

* Polarity is not required on the HVAC communication line.

2 Connecting to the line plug

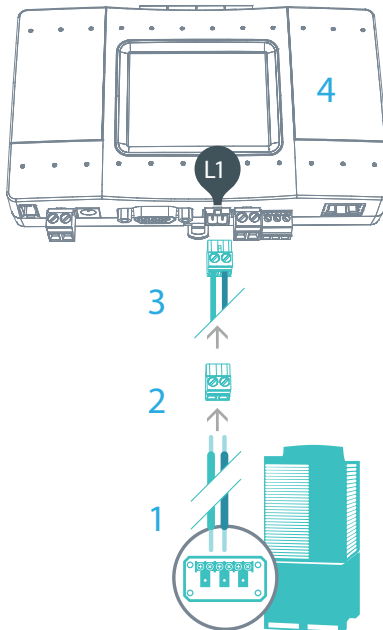
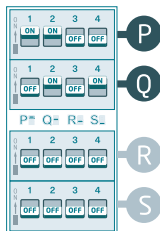
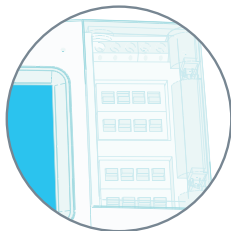
Secure the cables in the L1 line plug.

3 Plugging to the TDS20065

Insert the plug in to the TDS20065 L1 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L1



Hitachi (JCI) HVAC Terminal

HVAC York (US) VRF — on L1

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC communication terminal's names*

1		 York (US) Max. 164 indoor units
2		

* For Heat Recovery systems the connection is at outdoor units only.

* Polarity is not required on the HVAC communication line.

2 Connecting to the line plug

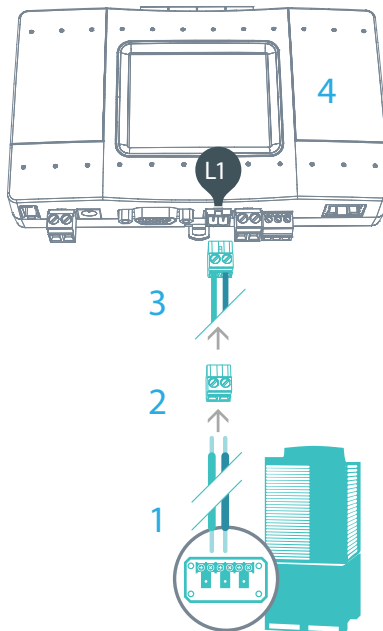
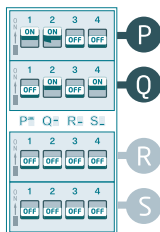
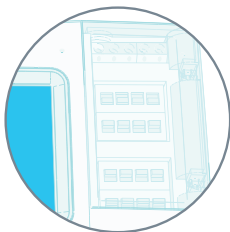
Secure the cables in the L1 line plug.

3 Plugging to the TDS20065

Insert the plug in to the TDS20065 L1 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L1



York (US) HVAC Terminal

HVAC York VRF — on L1

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC communication terminal's names*



* For Heat Recovery systems the connection is at outdoor units only.

* Polarity is not required on the HVAC communication line.

2 Connecting to the line plug

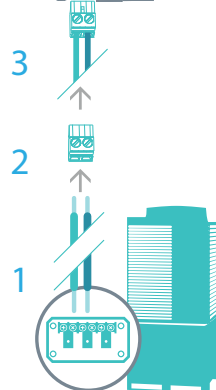
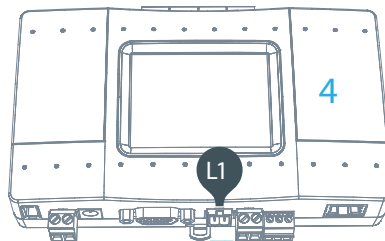
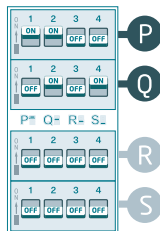
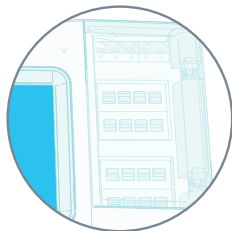
Secure the cables in the L1 line plug.

3 Plugging to the TDS20065

Insert the plug in to the TDS20065 L1 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L1



York HVAC Terminal

HVAC Haier VRF — on L1

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC communication terminal's names*



* For Heat Recovery systems the connection is at outdoor units only.

* Polarity is not required on the HVAC communication line.

2 Connecting to the line plug

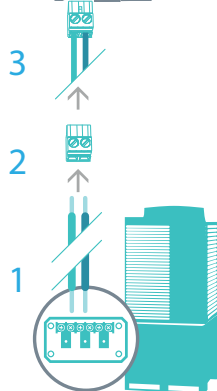
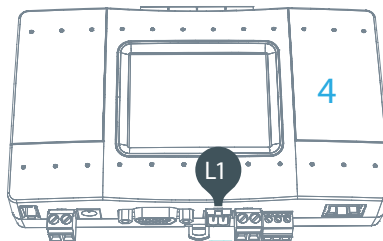
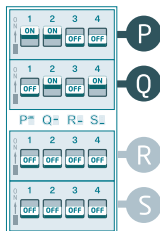
Secure the cables in the L1 line plug.

3 Plugging to the TDS20065

Insert the plug in to the TDS20065 L1 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L1



Haier HVAC Terminal

HVAC Mitsubishi Heavy VRF — on L7

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC outdoor or indoor



2 Connecting to the line plug

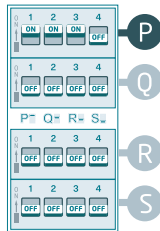
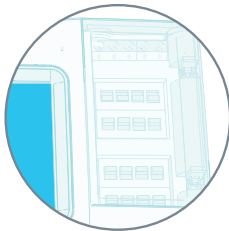
Secure the cables in the L7 line plug.

3 Plugging to the TDS20065

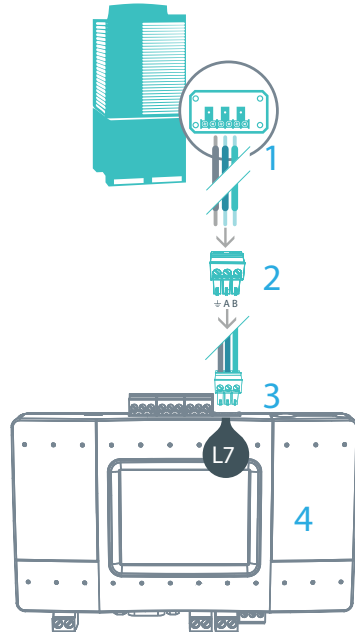
Insert the plug into the TDS20065 L7 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L7



Mitsubishi Heavy HVAC Terminal



HVAC LG VRF — on L7

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC outdoor or indoor

InterA



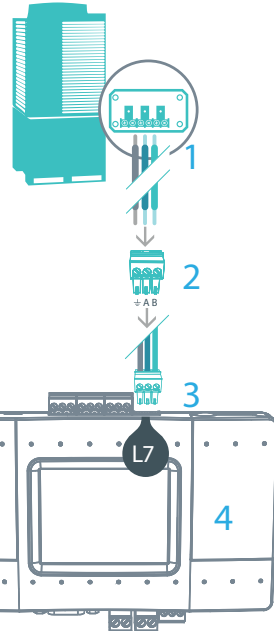
InterB



LG

(Max. 128 indoor units)

LG HVAC Terminal



2 Connecting to the line plug

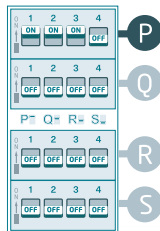
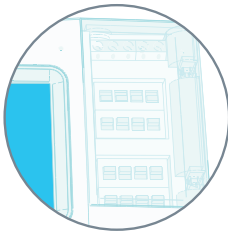
Secure the cables in the L7 line plug.

3 Plugging to the TDS20065

Insert the plug in to the TDS20065 L7 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L7



HVAC Gree VRF — on L7

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC outdoor only



2 Connecting to the line plug

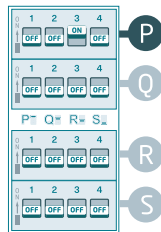
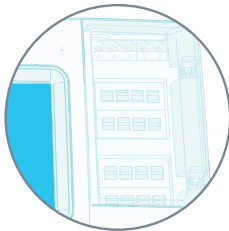
Secure the cables in the L7 line plug.

3 Plugging to the TDS20065

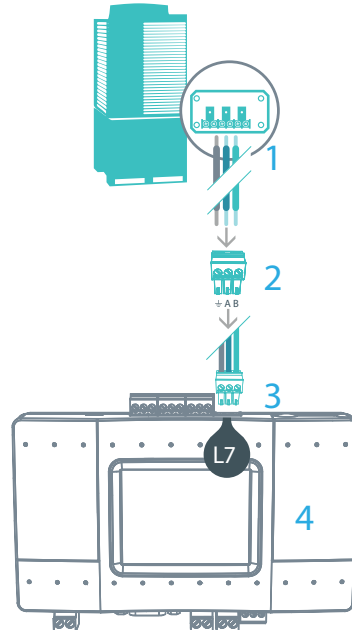
Insert the plug in to the TDS20065 L7 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L7



Gree HVAC Terminal



HVAC Midea VRF — on L7

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC outdoor only



2 Connecting to the line plug

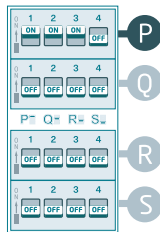
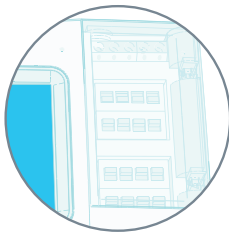
Secure the cables in the L7 line plug.

3 Plugging to the TDS20065

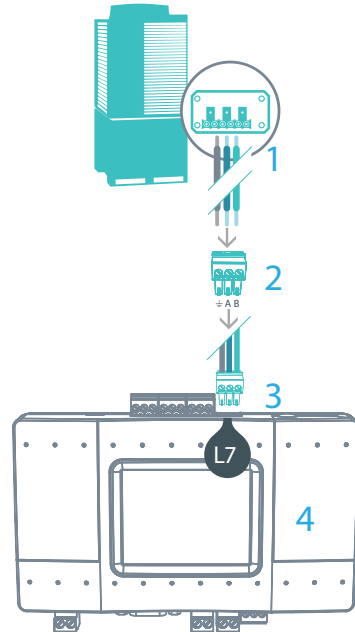
Insert the plug in to the TDS20065 L7 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L7



Midea HVAC Terminal

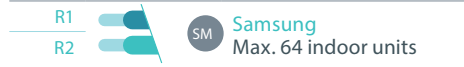


HVAC Samsung VRF — on L7

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC outdoor only



2 Connecting to the line plug

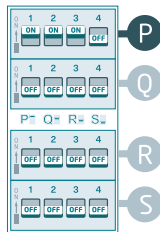
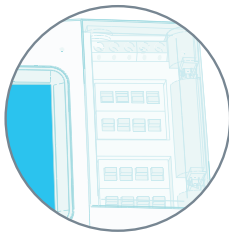
Secure the cables in the L7 line plug.

3 Plugging to the TDS20065

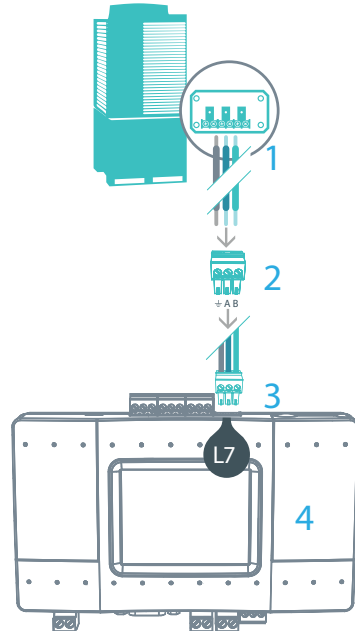
Insert the plug in to the TDS20065 L7 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L7



Samsung HVAC Terminal

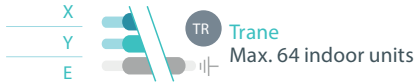


HVAC Trane VRF — on L7

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC outdoor only



2 Connecting to the line plug

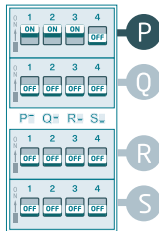
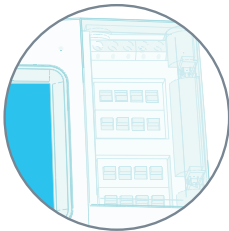
Secure the cables in the L7 line plug.

3 Plugging to the TDS20065

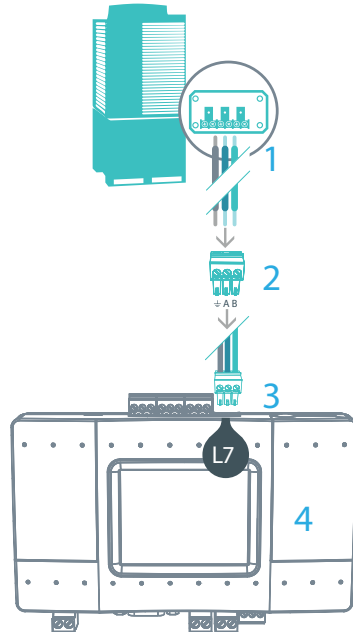
Insert the plug in to the TDS20065 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L7



Trane HVAC Terminal



HVAC Trane (US) VRF — on L7

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC outdoor only



2 Connecting to the line plug

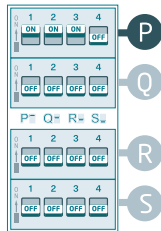
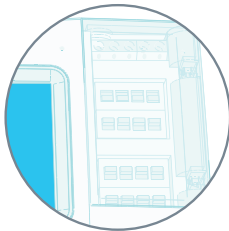
Secure the cables in the L7 line plug.

3 Plugging to the TDS20065

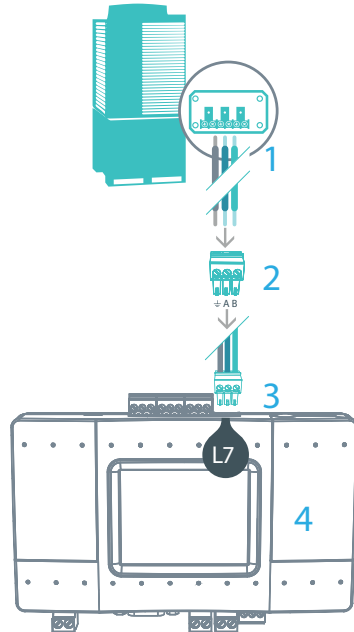
Insert the plug in to the TDS20065 L7 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L7



Trane (US) HVAC Terminal



HVAC Kentatsu VRF — on L7

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC outdoor only



2 Connecting to the line plug

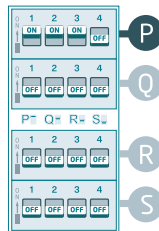
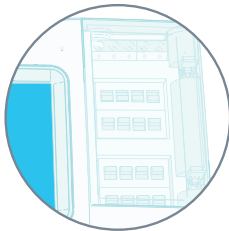
Secure the cables in the L7 line plug.

3 Plugging to the TDS20065

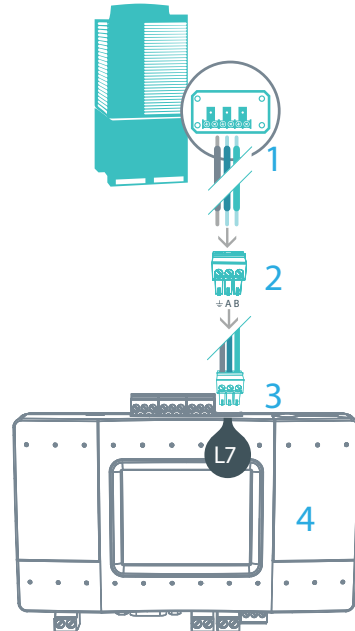
Insert the plug in to the TDS20065 L7 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L7



Kentatsu HVAC Terminal



HVAC Chigo VRF — on L7

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC outdoor only



2 Connecting to the line plug

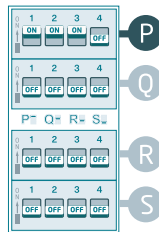
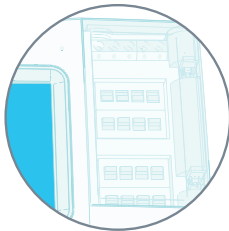
Secure the cables in the L7 line plug.

3 Plugging to the TDS20065

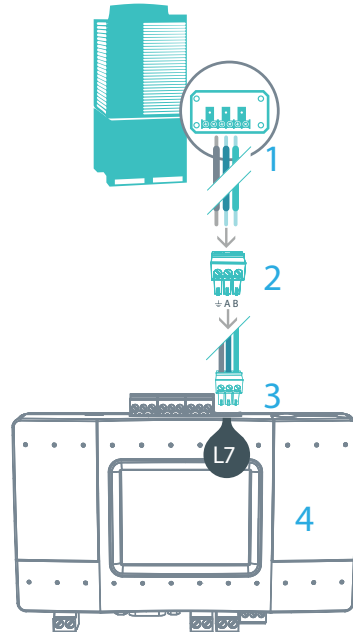
Insert the plug in to the TDS20065 L7 socket

4 Check DIP Switches are set correctly

Dip switches setup for VRF HVAC system on L7



Chigo HVAC Terminal



HVAC Gree GMV5 VRF — on L8

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC outdoor only



GR Gree GMV5
Max. 64 indoor units

2 Connecting to the TDSxxx

A USB Network Interface adapter is required for connecting up to two Gree GMV5 VRF lines. Please contact support.



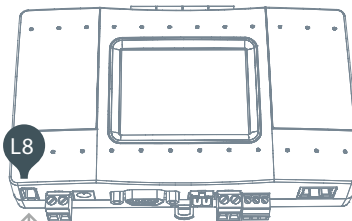
This adapter includes a CAN bus 120 Ω resistor

3 Plugging to the TDS20065

Insert the plug in to the TDS20065 L8 (USB)

4 Check DIP Switches are set correctly

3rd dip switch should be ON on the 1st subline of Gree GMV5.



3



2



1

Gree GMV5 HVAC Terminal

HVAC Fujitsu VRF — on L8

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC communication terminal names:



2 Connecting to the TDS20066 adapter



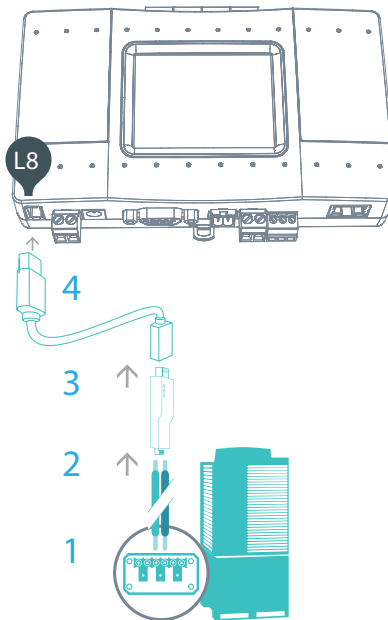
TDS20066 USB Network Interface (TP/FT-10) adapter is required for connecting to Fujitsu VRF.

3 Connect Echelon via USB Extension cable

Connect the USB Extension cable (A-Male to A-Female) to the adapter.

4 Plug in to the TDS20065 L8

Insert the USB cable in to the L8 USB host.



Fujitsu HVAC Terminal

HVAC Rheem VRF — on L8

1 HVAC Communication Terminals

Connect to the communication terminals on the HVAC equipment:

HVAC communication terminal names:



2 Connecting to the TDS20066 adapter



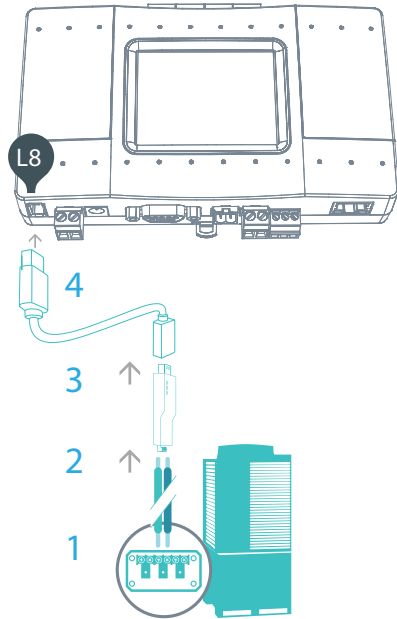
TDS20066 USB Network Interface (TP/FT-10) adapter is required for connecting to Rheem VRF.

3 Connect Echelon via USB Extension cable

Connect the USB Extension cable (A-Male to A-Female) to the adapter.

4 Plug in to the TDS20065 L8

Insert the USB cable in to the L8 USB host.



Rheem HVAC Terminal

CoolMasterNet installation complete

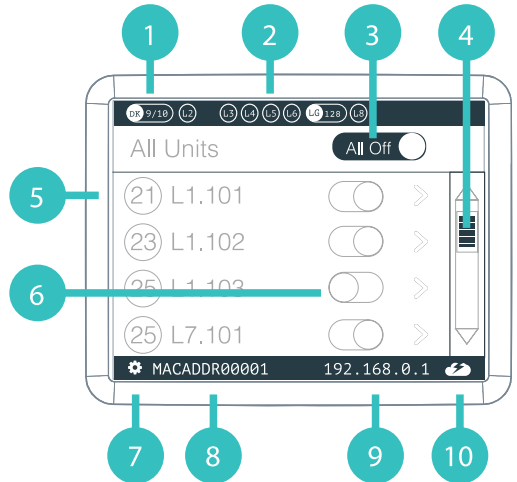


To download the latest firmware www.coolautomation.com/support/coolmasternet
Firmware update FAQ www.coolautomation.com/support/faq/coolmasternet

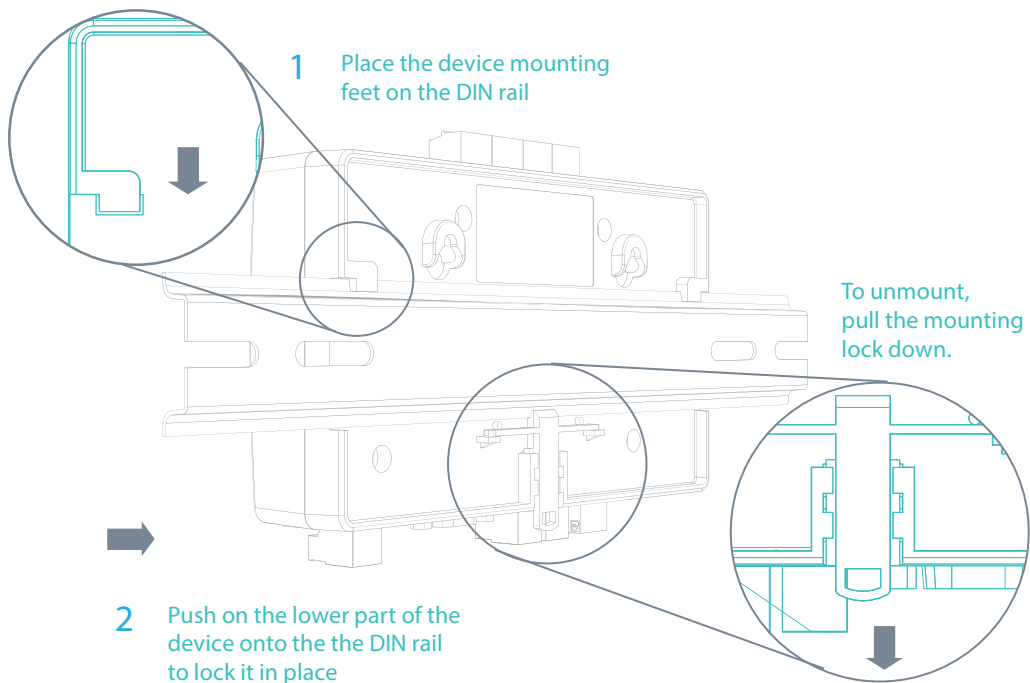
CoolMasterNet Unit screen

After successful installation, units screen will show all the detected indoor units and their statuses.

- 1 Active HVAC line (DK 9/10) (Groups/Units)
 - 2 Inactive HVAC line
 - 3 All ON/OFF operation button
 - 4 Scrollbar
 - 5 Connected indoor unit with it's address and Set-Point temperature indication.
 - 6 Indoor unit operation button (on/off)
 - 7 Service settings button
 - 8 TDS20065 address
 - 9 TDS20065 IP address
 - 10 CoolRemote connectivity status
- Connected - Communicating
 - Connected - Idle
 - Disconnected - with error code



Mounting on a DIN rail



Mounting on a wall

