

United Kingdom

TENWAYS ENGINEERING SERVICES LTD. 85 Kenilworth Road London HA8 8XA Tel: 020 8203 1105 <u>www.coolmasternet.co.uk</u> email: controls@tenways.co.uk

## **Quick Guide to CoolRemote on CoolMasterNet**

# For Air Conditioning Systems

(CoolMasterNet - Interface Adapter for Air Conditioning Systems)



Air Conditioning Communication Bus Lines: L1 – L2: For Mitsubishi Electric, Daikin, Toshiba, Panasonic, Sanyo and Hitachi L4 – L7: For Mitsubishi Heavy Industries, LG, Samsung, and Gree L8 – USB Port for Echelon Stick - Fujitsu רמ"ד



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The CoolMaster**Net** is an advanced device which acts as a link between an Air Conditioning System and the CoolRemote Web App.

The CoolMasterNet communicates with the Air Conditioning System using the Air Conditioning manufacturer's communication Bus Line. The Bus line is used for Intersystem communication between all the units in an Air Conditioning system, as well as for control via a centralised controller.

This Bus line is normally present on all VRF/VRV indoor and outdoor units as well as some Split Air Conditioning Units. On split Air Conditioning units where the Bus line it is not present by default, the Air Conditioning manufacturers offer an optional PCB with Bus line capabilities.

The CoolMaster**Net** is able to communicate with all the major Air Conditioning manufactures Bus Lines.

Manufacturer	Bus Name
Daikin	DIII Net
Sanyo	S Net
Panasonic	P Net
Toshiba	TCC Link
Mitsubishi Electric	M Net
LG	PI485
Mitsubishi Heavy Industries	Super Link / Super Link II
Hitachi	H Link
Samsung	Nasa Protocol
Fujitsu	VRF Communication Line

#### **Bus Line Names**

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## <u>SETUP</u>

The CoolMaster**Net** is simple and easy to install, no IT skills required to set it up. Simply follow these 4 steps:

- Step 1 Connect a 2 core cable from the Green Connector on the CoolMasterNet to the Air Conditioning Bus (see diagram at the end of this Guide).
- Step 2- Connect the Power supply using the supplied transformer.
- Step 3 Using an Ethernet cable connect the CoolMasterNet to a local router. It will now automatically connect to our CoolRemote servers.
- Step 4 Download the CoolRemote App or go to <u>https://app.coolremote.net</u> and register the CoolMasterNet, enter your details & create a password. Done!

## **OPERATION**

### Smartphone-Tablet- PC control

Once setup is complete, you can now control and monitor the Air Conditioning units using a Smartphone, Tablet or PC.

Control options (subject to manufacturer's limitation for some units) are:

- On/Off (Collective)
- On/Off (individual)
- Temperature set point
- Mode (Cool, Heat, Auto, Fan)
- Fan Speed Selection
- Scheduling
- Fault Code Display

## **CoolMasterNet Touch Screen Control**

Control on the Touch Screen

- On/Off (Collective)
- On/Off (individual)
- Temperature set point (individual)
- Mode Selection (Collective)
- Fan Speed Selection (individual)
- Fault Code Display (individual)



DR 10/9 (L2 HE 128 (L5 (L6 (L7	
All Units	All Off
21 L1.101	or > 🔺
24 L1.102	
23 L1.104	<b>ON</b> >
21 L2.101	> 🔽
🍄 F0AD00000000 192.168.100.201 🍋	



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#### Home Automation and BMS

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The CoolMaster**Net** also connect to Home Automation Systems and Building Management Systems, through IP, RS232 and Modbus RTU. The CoolMasterNet would act as a bridge between these two systems providing a simple solution to a complex problem.

#### **Connection Options Diagrams**



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