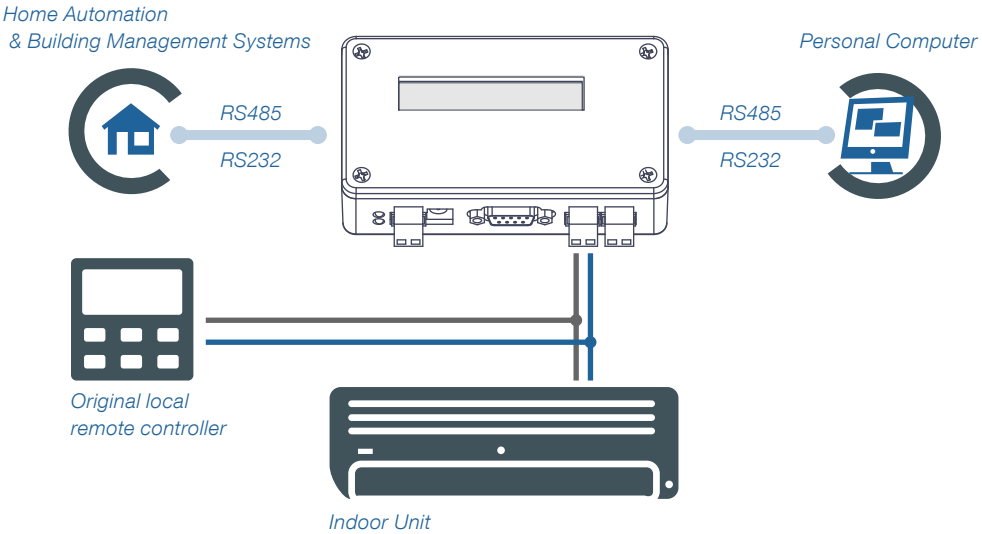
D Daikin
M Mitsubishi Electric
S Sanyo
T Toshiba
H Hitachi
F Fujitsu

CooLink

RS232/RS485 interface for residential Air Conditioners and VRV/VRF indoor units

CooLink is a versatile bridge device that allows to control single-split & multi-split air conditioning systems by Home Automation control systems.
Exposing simple interface over RS232 or RS485 communication line, CooLink gains user application full control over air conditioning system parameters, helping simultaneously integrating it with other home control systems, such as lighting, curtains etc. CooLink enables several interfaces for air conditioning control, such as: a proprietary ASCII commands protocol over RS232, same proprietary ASCII commands protocol using RS485 or standard Modbus RTU protocol on RS485 communication line.



Cool Automation

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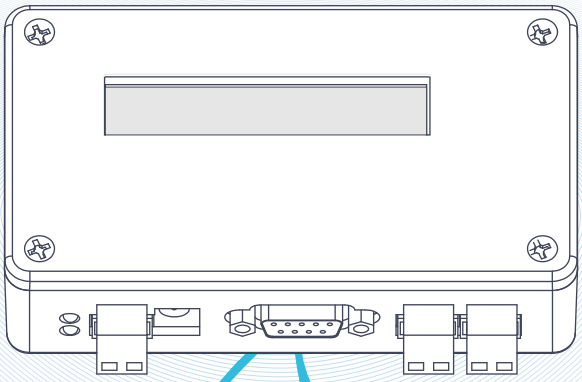

Compatible Systems

- **D** Daikin
- **M** Mitsubishi Electric
- **S** Sanyo
- **T** Toshiba
- **H** Hitachi (future option)
- **F** Fujitsu (future option)

Full Control over Indoor Units Operation

- Simultaneous control of up to 8 indoor units.
- On/Off control
- Cool | Heat | Fan | Dry mode selection
- Set Temperature Control
- Fan Speed Control
- Swing Control (for wall mounted & cassette types)
- Filter Reset Sign
- Group Operations (All On, All Off).

Easy to integrate with Home Automation Systems and PC applications

CooLink Interface is simple and straight forward. Implementation of software modules (both ASCII and Modbus) are not complex at all.

Unified RS232 Interface

All CooLink products impose unified interface for all manufacturers.
It means, for example, that home application working for Daikin will work exactly the same way for Sanyo, Toshiba, Mitsubishi or other air conditioning systems.
No special adaptation will be required to migrate from one CooLink to another.

Connection & Power Supply

CooLink is connected to the communication line of the indoor unit. It doesn't require any additional power supply.

Interface

- Proprietary ASCII protocol over RS232
- Proprietary ASCII protocol over RS485
- ModBus RTU over RS485

Indoor Units Monitoring

- Failure Alarms
- Set point temperature
- Operation status (on/off)
- Operation mode (cool/heat/fan/dry)
- Fan speed (high/medium/low/auto)
- Filter sign
- Swing
- Diagnostics: Liquid, Gas, Return air temperatures, Expansion valve opening

Field Upgradable

New Firmware can be uploaded via RS232 port using a simple PC or Laptop. The customer can easily perform the firware update by himself without opening the unit.

Plug and Play Device

No additional configuration required after connecting the wiring, supplying the power and defining address of the indoor units, the system is ready to work.

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