



**TDS13530**

**Fan Coil Unit interface**

The 'Fan Coil Unit' (FCU) interface is a DIN-rail AUTOBUS interface to manage heating and/or cooling. This interface is provided with two output contacts to control the valves in the fan coil unit. It also has three outputs for fan speed control (low/medium/high).

**APPLICATION**

The integration of fan coil unit based heating/cooling systems with other home/building automation features. It generates the highest comfort and energy management level while simplifying the cabling.



**CHARACTERISTICS**

**General**

1 FCU interface per FCU needed.

**Supported speeds**

- 3 speeds +OFF (low, med, high)
- 2 speeds +OFF (low, high)
- 1 speed +OFF (high)

**Supported types/modes:**

- 2 pipe system heat
- 2 pipe system cool
- 2 pipe system heat/cool
- 4 pipe system heat+cool

**LED feedback**

Fan speed LED indication:

- LED off: fan off
- 1 blink: low speed
- 2 blinks: medium speed
- 3 blinks: high speed

Valve LED indication:

- LED off: valve(s) closed
- 1 blink: heat/cool valve open
- 2 blinks: cool valve open

**SETTINGS**

**Configuration**

Via PROSOFT Suite (3.4.20.0 or higher).

**AUTOBUS address**

Via two rotary switches "Tens" & "units".

**Jumpers**

Terminating resistor (supplied with the interface). To be used when the interface is at the physical end of the AUTOBUS cable.

**INSTALLATION**

**DIN-rail mounting**

4 modules wide.

**Supply voltage**

12V supplied by the AUTOBUS (minimum 9V).

**Important installation remarks**

- ! Must be placed inside an electrical cabinet to avoid the risk of an electrical shock.
- ! Follow the safety standards from the local authorities to be compliant with all regulations.

**CONNECTIONS**

**AUTOBUS**

AUTOBUS connector set + patch cable (supplied with this unit).

**Fan**

Power supply: L+N 100-265 VAC max.  
Screw terminals; max. 4mm<sup>2</sup> (solid) (AWG12) or 2,5mm<sup>2</sup> (stranded) (AWG14).

EC motors (brushless DC motors) are supported when combined with externally connected resistors (not supplied with the interface). See schematic drawing.

- Low speed: 220k Ohm = 3,13V
- Medium speed: 100k Ohm = 5,95V
- High speed: 47k Ohm = 9,9V

- ! Must be protected with external 10A fuses.

**Valves**

Power supply: 24V AC/DC; 100-265 VAC max.  
Screw terminals; max. 4mm<sup>2</sup> (solid) (AWG12) or 2,5mm<sup>2</sup> (stranded) (AWG14).

- ! Must be protected with external 10A fuses.

**POWER CONSUMPTION**

**AUTOBUS**

Max. 75 mA

**DIMENSIONS**

72 W x 90 H x 61D (mm)

**NET | GROSS WEIGHT**

0,165 kg | 0,285 kg

**PACKAGING CONTENT**

TDS13530 interface  
AUTOBUS connector set + terminating resistor  
AUTOBUS Patch cable

**ENVIRONMENTAL CONDITIONS**

**Storage (with no condensation or icing)**

Temperature: -20°C to +65°C max.  
Relative humidity: 5% to 85% max.

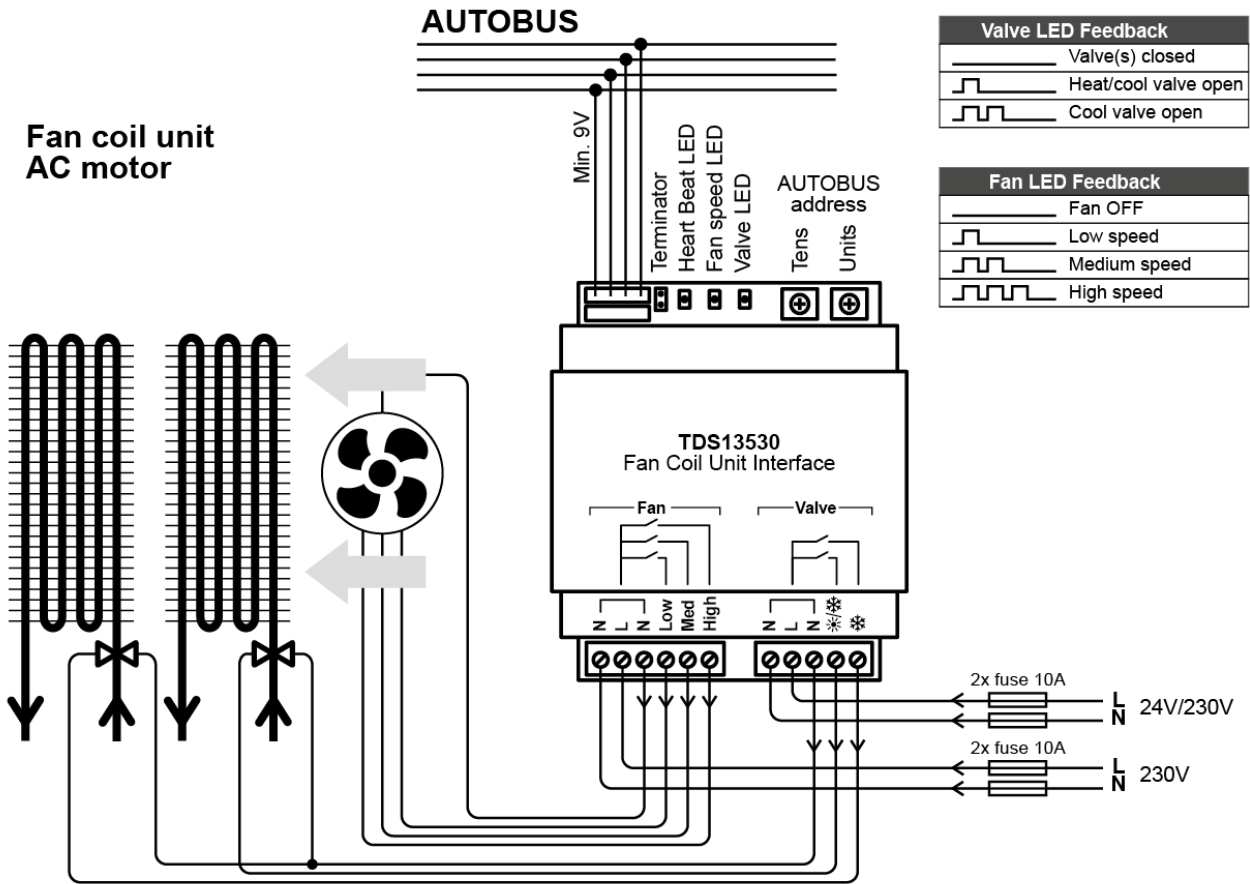
**Operation (with no condensation or icing)**

Temperature: 5°C to +50°C max.  
Relative humidity: 5% to 80% max.

**IP PROTECTION RATE**

IP20

**SCHEMATIC DRAWING**



**EC motor (brushless DC motor)**

