

External input 0-10V for
the wire remote
controller

TECHNICAL MANUAL

UTI-AN2W

Compatibility with the wire remote:

99707 for UTB-YUB, YPB (VRF-S, VRF-V, VRF-J), UTH(AR)-3TA16

99708 for UTY-RNKY, RSKY (VRF-VII)

99709 for UTB-YUD (split units)



IMPROMAT
KLIMA

APPLICATION

UTI-AN2W is expansion module for wire controlled indoor units / VRF-kits, to external inputs for:

- START/STOP,
- COOLING/HEATING,
- TEMPERATURE SETTING

The compliance with installation instructions provided in this documentation is necessary for ensure technical parameters and reliable operation.

All construction work associated with installing and connecting the module may be performed only by a person with qualifications in the field installation and servicing of air conditioning Fujitsu licensed to work on electrical and cooling equipment.



DESCRIPTION OF FUNCTIONALITY

Input 0-10V: By 0,0 VDC input signal is generated STOP command. By input signal in range +0,6 to +10,0 VDC is generated OPERATON command. In this range you can set indoor temperature regulation from +16°C to 30°C proportionally, in dependence on input voltage.

**) Note.: The display of the wire remote controller cannot show a set temperature between 16 to 18°C. In this range there will be still displayed 18°C.*

Input COOLING/HEATING: to switching between cooling and heating operations by potential free contact (contact load 12VDC/1mA). Open = COOLING, Close = HEATING

Wire Remocon output: to connect the module with electronic of indoor unit or VRF-Kit by wire remocon terminal.

USING UTI-AN2W TOGETHER WITH WIRE REMOCON:

You can use UTI-AN2W either separately or jointly with the wire remocon, to show of current status of the indoor unit (or VRF-kit) and error codes.

The module UTI-AN2W is set as Master. The wire remocon is necessary set as Slave (by its internal DIP-switches (see the Installation manual of used remocon).

Note: START/STOP, SET TEMP. and MODE keys will not work (respectively its commands will be overwritten by commands from UTI-AN2W).

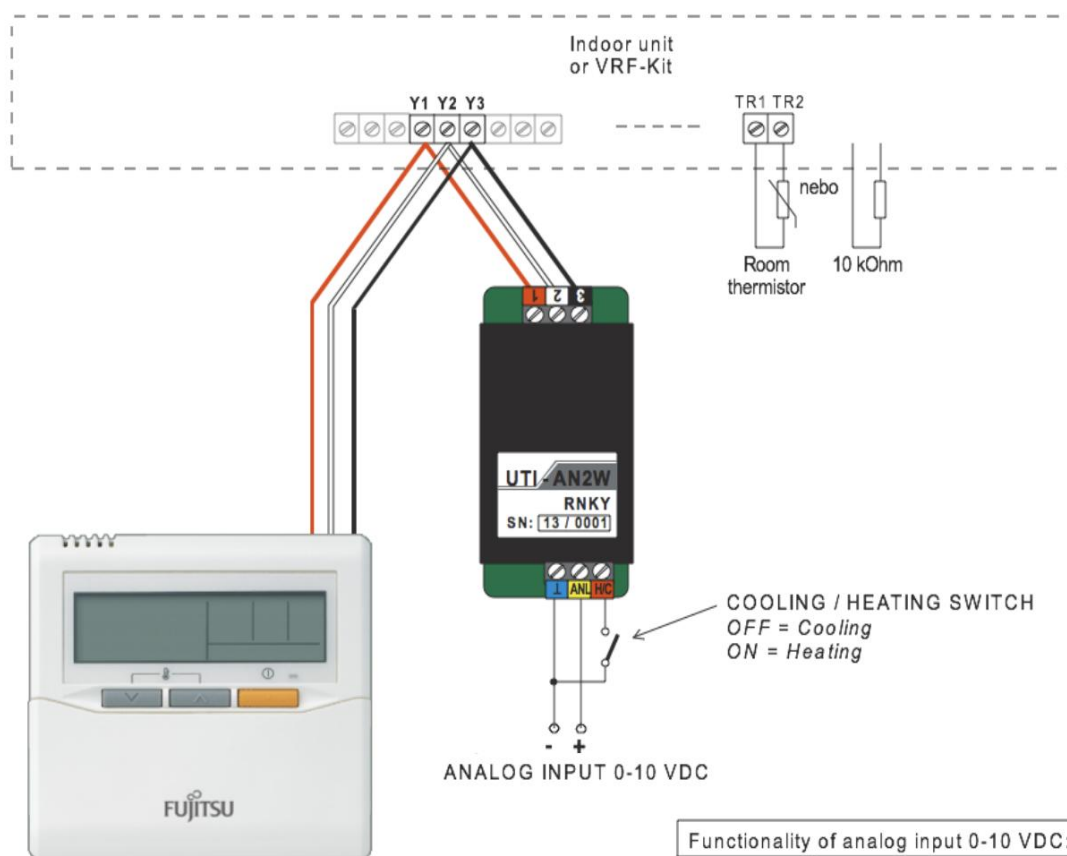
GROUP CONTROL

You can use UTI-AN2W module also for group control up to 16 indoor units (if this possibility appears), or VRF-kits.

INSTALLATION

- The module UTI-AN2W can be placed into the indoor unit or into the VRF-kit case or into the installation box (with the IP protection depending of the current enviroment).
- The terminals labelled **1 - 2 - 3** must be connected to identically labelled wire remocon terminals of the indoor unit.
- The terminals labelled **⊥ - ANL - HC** are used for connection to superset control system

SAMPLE OF APPLICATION



*) Note.: The display of the wire remote controller cannot show a set temperature between 16 to 18°C. In this range there will be displayed 18°C.

Functionality of analog input 0-10 VDC:		
Input signal	Func.	Set temperature
0,0 V	Stop	-
+ 0,6 V	Operation	+16°C*
+10,0 V	Operation	+30°C

You can use two ways of the temperature control:

1. Internal temperature control of the indoor unit / VRF-kit. In this case will be the temperature controlled in dependence on the indoor unit Room thermistor.
2. External temperature control by superset control system (BMS). Then is it necessary to replace the original Room thermistor by 10 kOhm resistor, to simulate the fixed +25°C room temperature.