
SABIANA
IL CLIMA AMICO

Sabianet 3.2
Set-up

Sabianet 3.2

- ✓The Sabianet 3.2 supervision system is installed in a PC box, it can be connected to a network of fan coils or recovery unit all of them equipped with the MB board.
- ✓The system is manageable in an easy and quick way:
  1 locally with a mouse, keyboard and monitor
  2 remotely using any browser
  3 remotely using the available APPs
- ✓Interoperability in Open API 3.0 specification with other supervision systems:
  1 Local API with HTTP protocol without internet connection
  2 User API with HTTPS protocol and with registration to the Cloud Sabiana.

List of units with MB card

- ✓Fan coil asynchronous motor and ecm motor .
- ✓Cassette asynchronous motor and ecm motor .
- ✓Cassette Jumbo.
- ✓Coanda asynchronous motor and ecm motor .
- ✓Fly asynchronous motor and ecm motor .
- ✓Elegant ecm.
- ✓ Maestro, QCV-MB.
- ✓ Ocean, QCV-MB
- ✓Carisma residential Whisper CFF.
- ✓ Carisma floor CFP ecm.
- ✓ Atlas ecm.
- ✓ Janus ecm.
- ✓ Recovery unit Energy Smart.
- ✓ Recovery unit Energy Plus.
- ✓ SIOS board.

Composition of the Sabianet 3.2 system

The Sabianet 3.2 package, cod.9079118, includes :

- PC box with inside SSD memory
- Power supply for PC box
- USB/RS485 converter
- Instruction manual

✓Linux O.S., Debian distribution,the Sabianet supervision software is already installed.

Main features

- ✓ Ease of use
- ✓ Unit name customization
- ✓ Creating groups of units
- ✓ Creation of master / slave networks
- ✓ Creation of weekly programs and special events
- ✓ View and email notification of alarm messages
- ✓ Unit status change report and temperature graph
- ✓ Management up to 60 units without routers, Over 60 units it is necessary to use routers or T-DIs; below the various configurations.

Example of a system up to 60 units

SABIANET 3.2

CRC

CRC

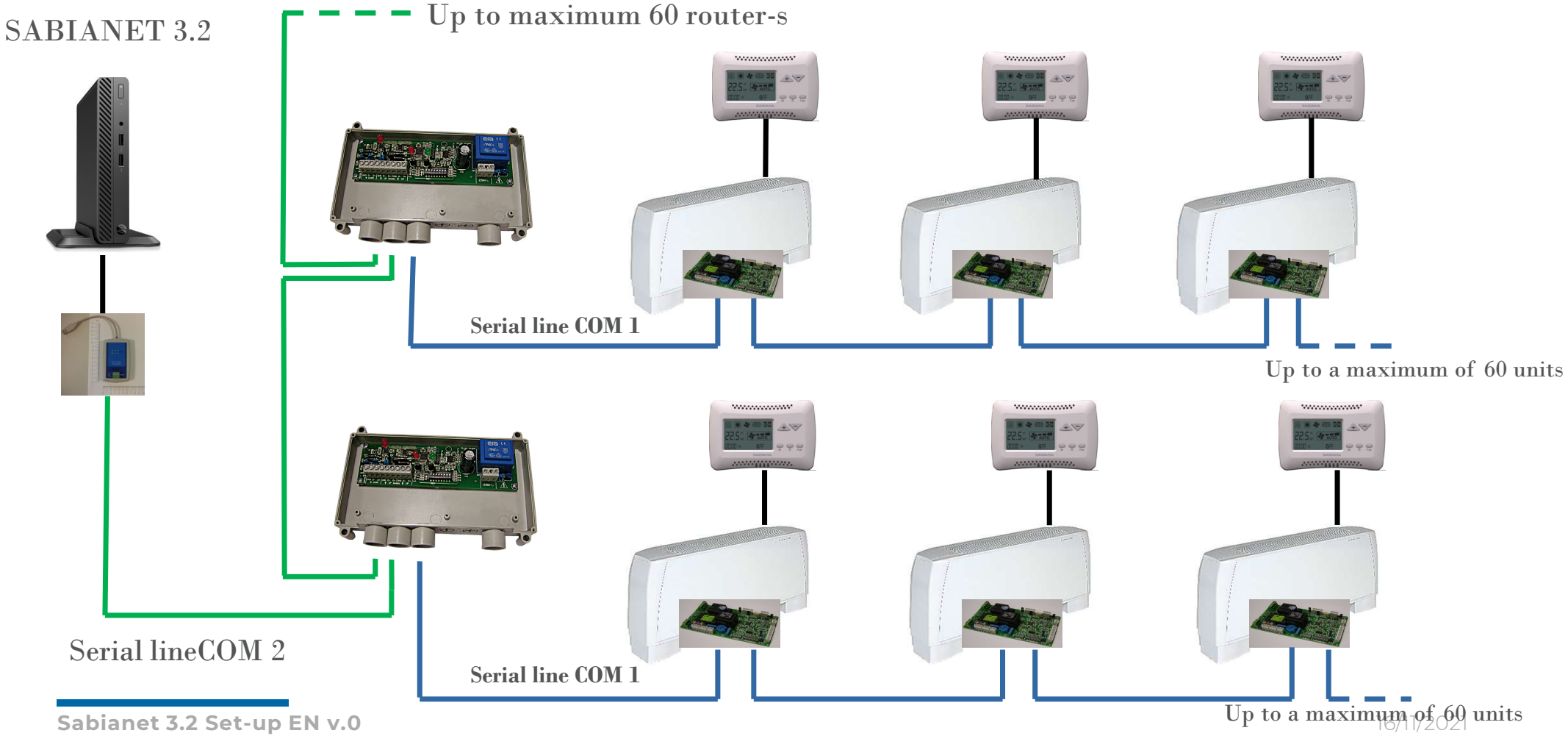
Energy Plus

Energy Smart

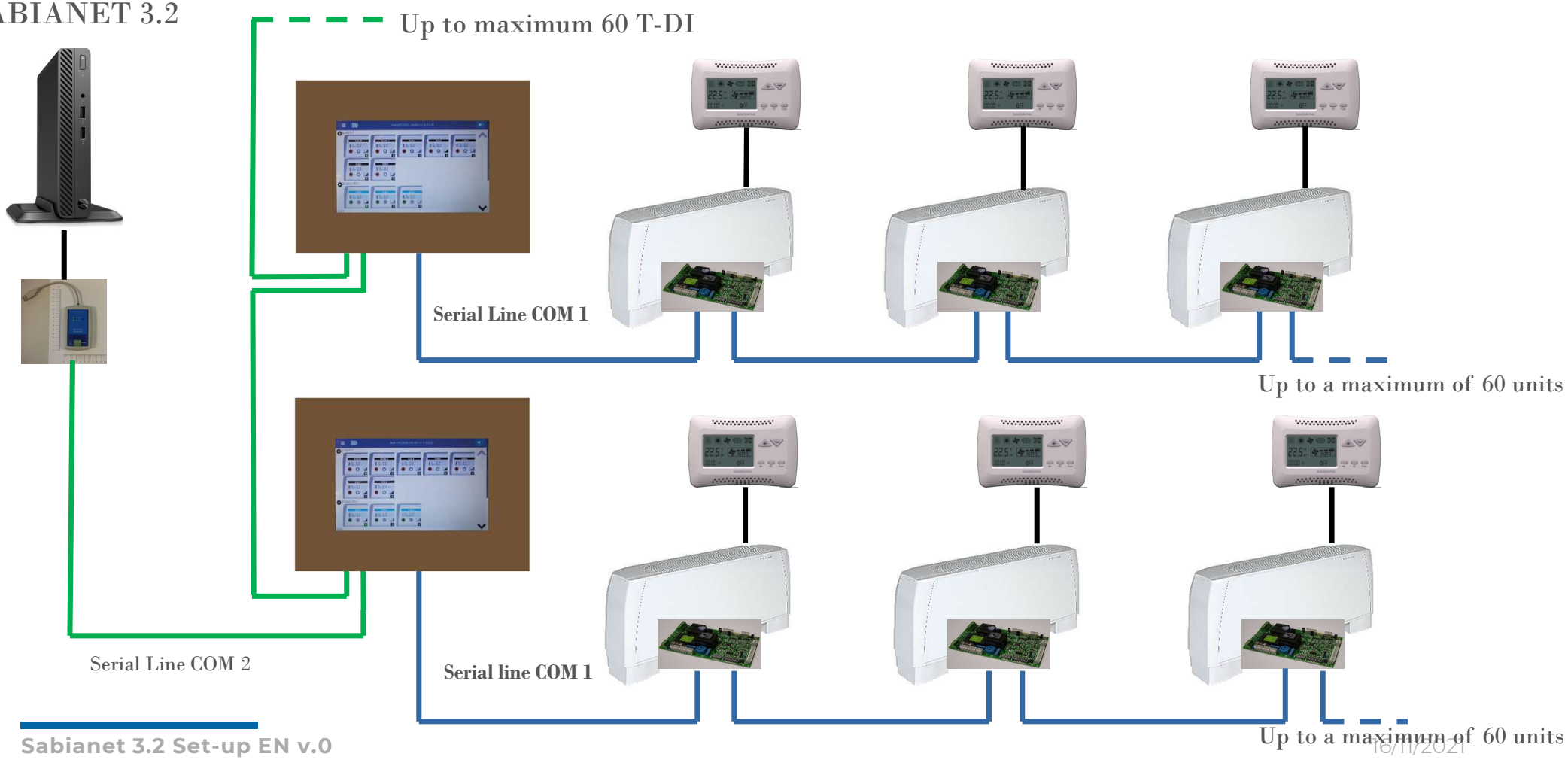
Serial line

Up to a maximum of 60 units
(SIOS +MB = 60)

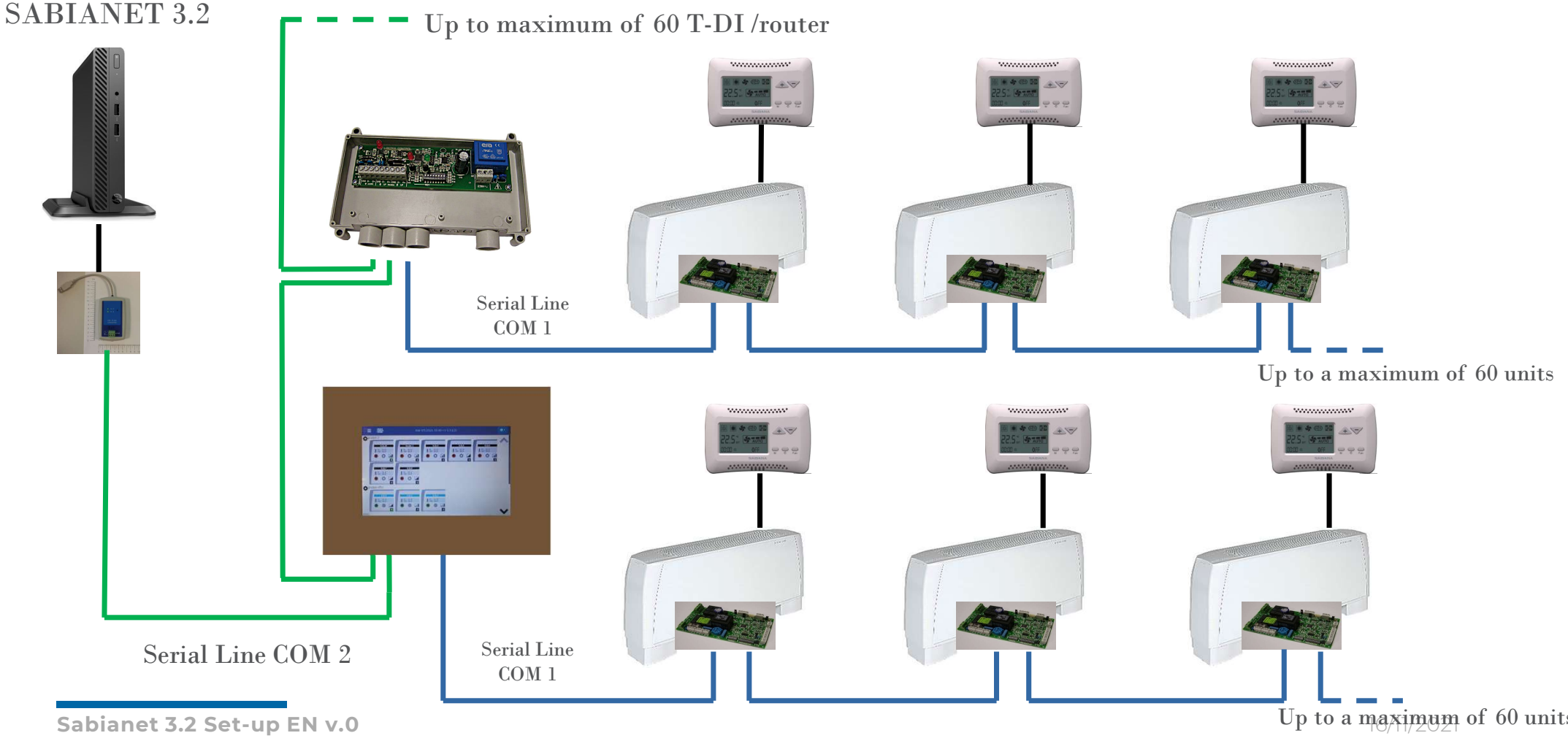
Example of a systems with router-s



Example of a system with T-DI



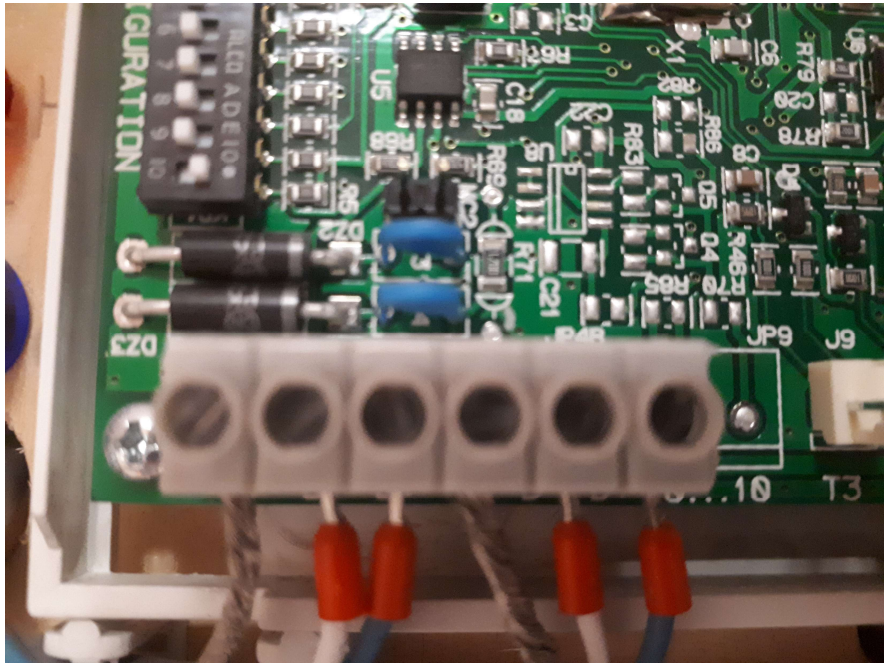
Example of a systems with T-DI and router



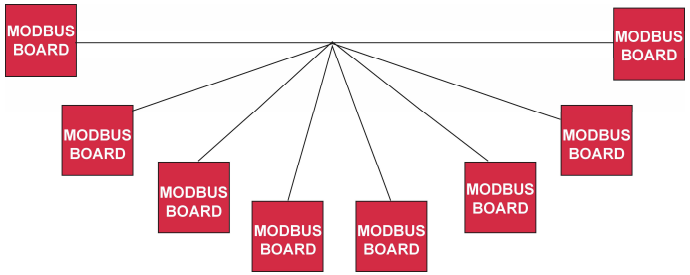
Serial line connection

- ✓ To execute the RS485 serial line, use the Belden 9841 type cable, or equivalent.

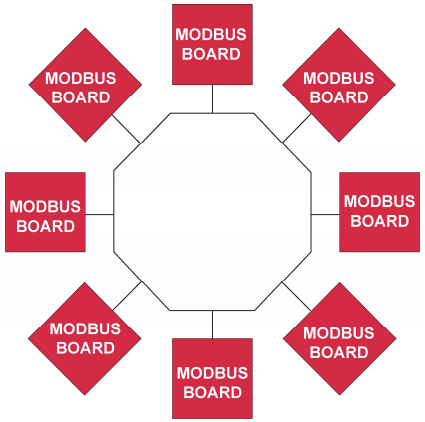
- ✓ Respect the continuity of the serial connection: terminal D + with terminal D +, terminal D- with terminal D-, **do not reverse the connections.**
- ✓ The cable shield must be connected to terminal 0 (zero).
- ✓ Wiring Topology: Only **in/out** configuration, daisy chain.



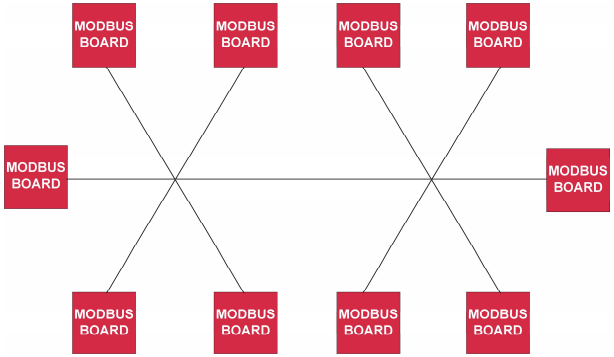
Cabling topology to be avoided



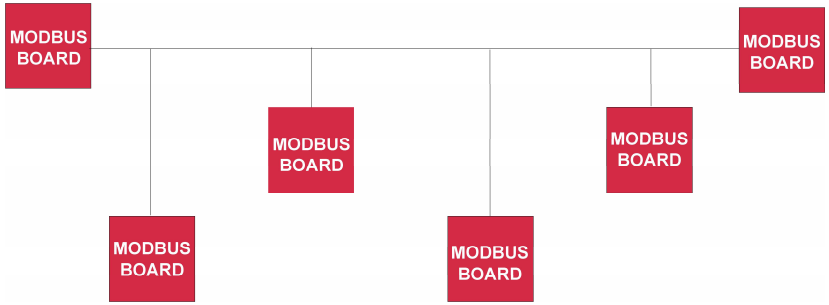
Star network



Ring network

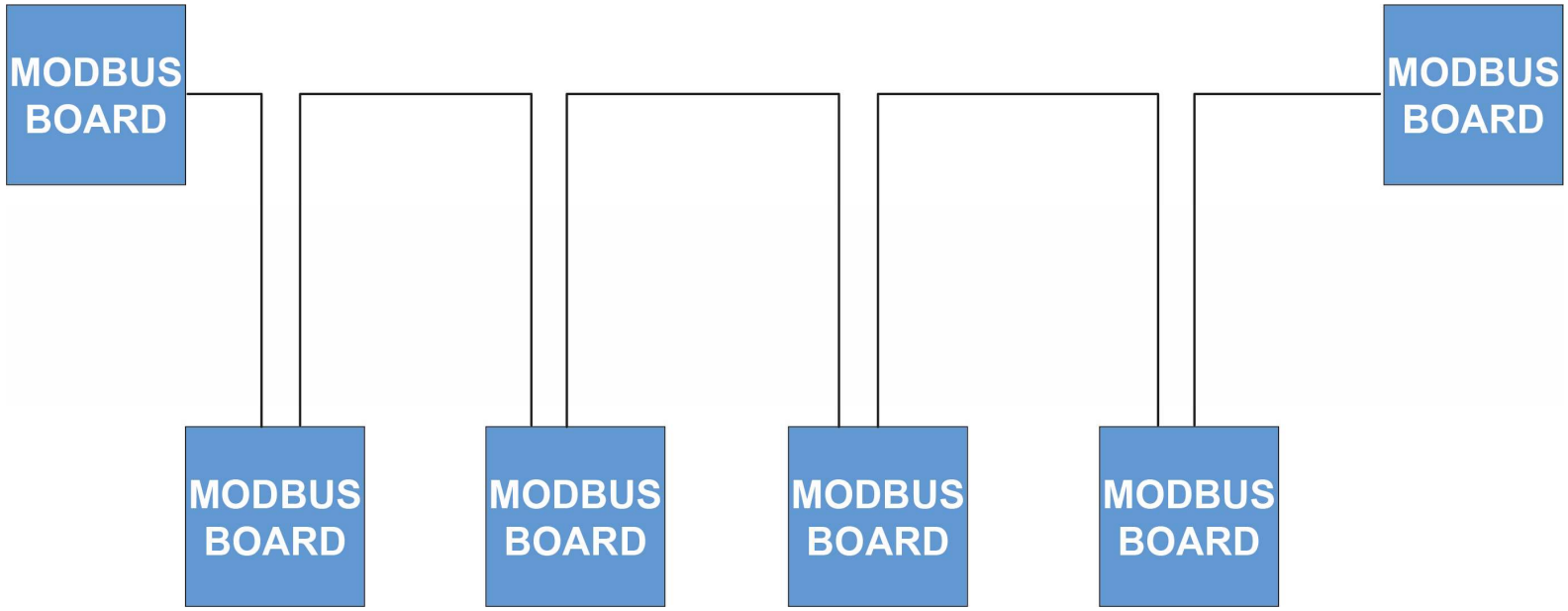


Mixed dorsal/star network



Dorsal network

Correct cabling topology



Daisy chain network

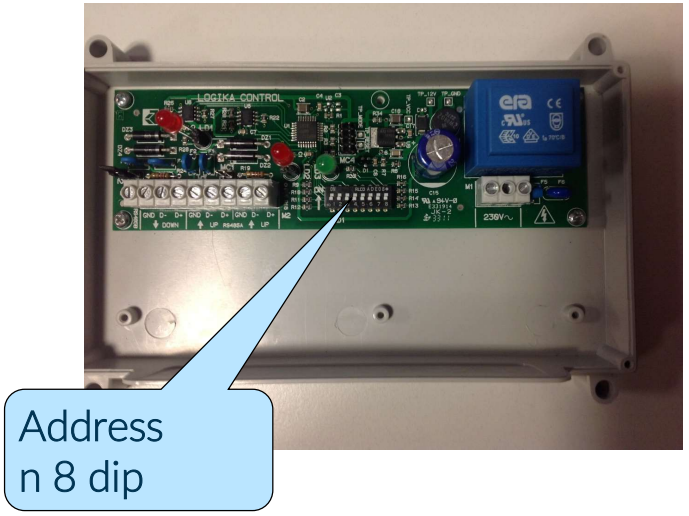
RS485 serial line connection

- ✓ The RS485 serial line must be defined by closing the MC2 jumper on the last connected MB board.
- ✓ The RS485 serial line cable must be laid away from sources of interference, such as electronic lamps, antennas, transformers, motors and power cables.
- ✓ Within the bus network it is possible to use the T-MB or the remote control as local control, in stand alone configuration or in Master / Slave configuration.

How to address the router-s

✓ Each router-s must have a unique address in order to be recognized by Sabianet.

1. Mark on the map of the building the unique number given to every single router-s (1-60)
2. Set the given number on each one of the router-s, using correctly the ADDRESS dips
3. Set of the Address dip swithces: for example: address #3 -> dip 1 and 2 in ON position
4. For Sabianet supervision system DIP n8 always in off



Indirizzo/ Address	Dip Switches ON	Indirizzo/ Address	Dip Switches ON	Indirizzo/ Address	Dip Switches ON
1	1	21	1+3+5	41	1+4+6
2	2	22	2+3+5	42	2+4+6
3	1+2	23	1+2+3+5	43	1+2+4+6
4	3	24	4+5	44	3+4+6
5	1+3	25	1+4+5	45	1+3+4+6
6	2+3	26	2+4+5	46	2+3+4+6
7	1+2+3	27	1+2+4+5	47	1+2+3+4+6
8	4	28	3+4+5	48	5+6
9	1+4	29	1+3+4+5	49	1+5+6
10	2+4	30	2+3+4+5	50	2+5+6
11	1+2+4	31	1+2+3+4+5	51	1+2+5+6
12	3+4	32	6	52	3+5+6
13	1+3+4	33	1+6	53	1+3+5+6
14	2+3+4	34	2+6	54	2+3+5+6
15	1+2+3+4	35	1+2+6	55	1+2+3+5+6
16	5	36	3+6	56	4+5+6
17	1+5	37	1+3+6	57	1+4+5+6
18	2+5	38	2+3+6	58	2+4+5+6
19	1+2+5	39	1+2+3+6	59	1+2+4+5+6
20	3+5	40	4+6	60	3+4+5+6

How to address the T-DI

✓ Each T-DI must have a unique address in order to be recognized by Sabianet

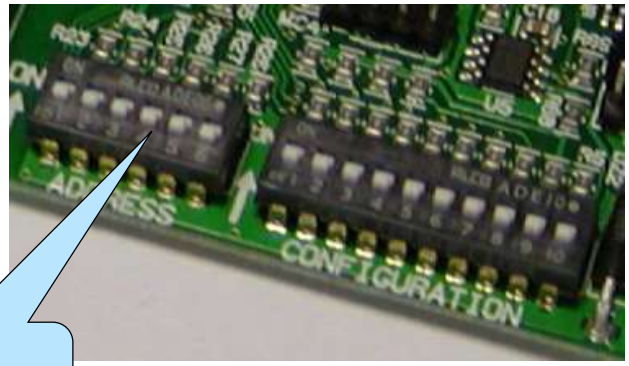
1. Mark on the map of the building the unique number given to every single T-DI(1-60)
2. From the menu select «Admin» and then «Advanced settings», under «Sabianet network address» set the network address

By pressing the «Save» button the T-DI will restart in Sabianet mode, where some functions will no longer be visible

How to address the MB-Board fitted on the FCU

- ✓ Every MB-board must have a unique address in order to be correctly read and recognized by the Sabianet 3.0

1. Mark on the map of the building the unique number given to every single FCU (1-60).
2. Set the given number on each one of the MB Board, using correctly the ADDRESS dips.
3. Set of the Address dip swithces:
   for example: address #3 → dip 1 and 2 in ON position

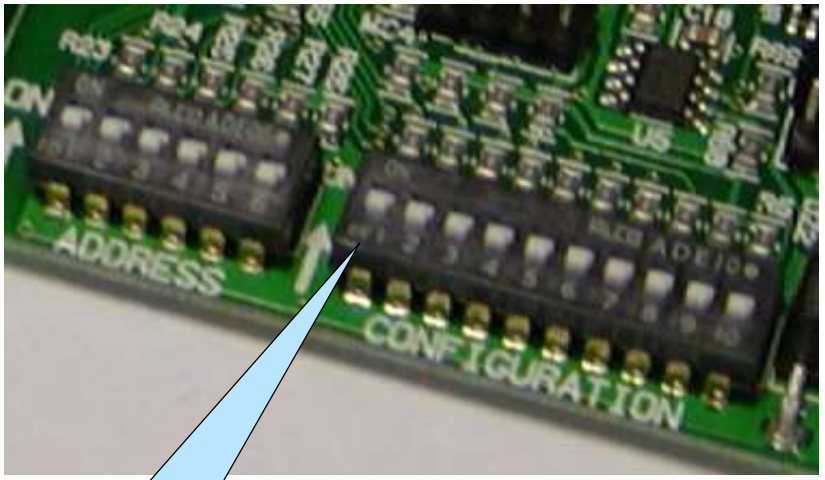


Address
n 6 dip

Indirizzo/ Address	Dip Switches ON	Indirizzo/ Address	Dip Switches ON	Indirizzo/ Address	Dip Switches ON
1	1	21	1+3+5	41	1+4+6
2	2	22	2+3+5	42	2+4+6
3	1+2	23	1+2+3+5	43	1+2+4+6
4	3	24	4+5	44	3+4+6
5	1+3	25	1+4+5	45	1+3+4+6
6	2+3	26	2+4+5	46	2+3+4+6
7	1+2+3	27	1+2+4+5	47	1+2+3+4+6
8	4	28	3+4+5	48	5+6
9	1+4	29	1+3+4+5	49	1+5+6
10	2+4	30	2+3+4+5	50	2+5+6
11	1+2+4	31	1+2+3+4+5	51	1+2+5+6
12	3+4	32	6	52	3+5+6
13	1+3+4	33	1+6	53	1+3+5+6
14	2+3+4	34	2+6	54	2+3+5+6
15	1+2+3+4	35	1+2+6	55	1+2+3+5+6
16	5	36	3+6	56	4+5+6
17	1+5	37	1+3+6	57	1+4+5+6
18	2+5	38	2+3+6	58	2+4+5+6
19	1+2+5	39	1+2+3+6	59	1+2+4+5+6
20	3+5	40	4+6	60	3+4+5+6

Fan coil configuration

- ✓ Set the configuration dips of each one of the MB boards according to the Unit configuration (2/4 pipes, valves, accessories…)
- ✓ If there are some **master/slaves** sub-network, it is necessary to configure the correct dips too on those Fan coil.



Configuration
n 10 dip

Start-up

Please note that it is important to respect the shutdown procedure to protect the Sabianet PC box; it is equally significant to power the PC box through a UPS to remedy anomalies in the electricity supply, such as voltage drops or blackouts.

Once all connections have been made correctly, connect the USB / RS485 converter to the USB port.

When the Sabianet switched on, it will show the Login mask.

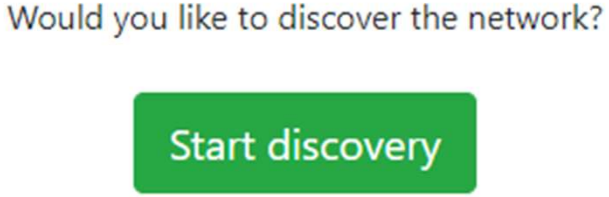
Type:

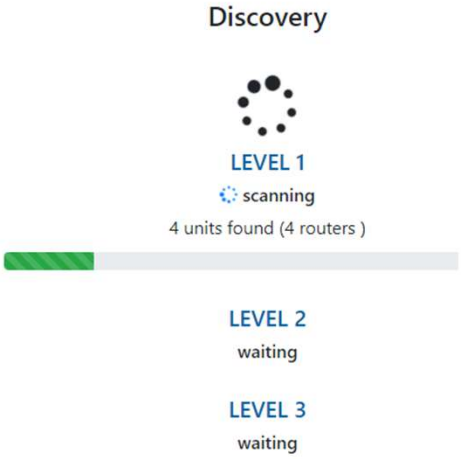
username: manager

password: manager

Discovery

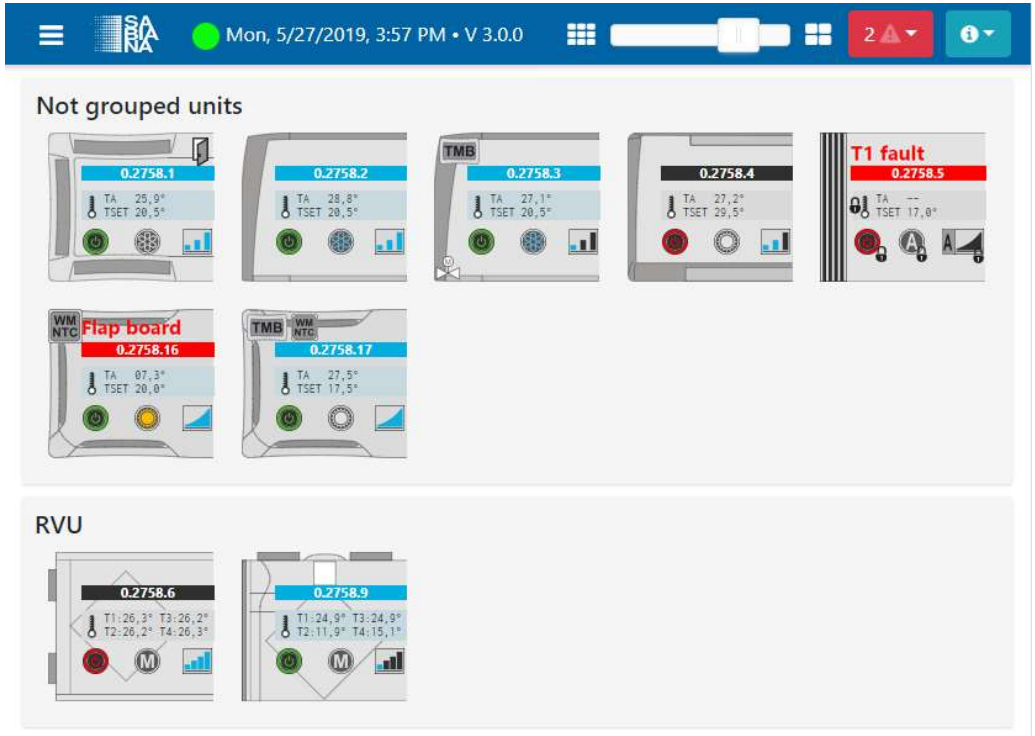
✓ Select the «Start discovery» button to search for all the units on the bus network





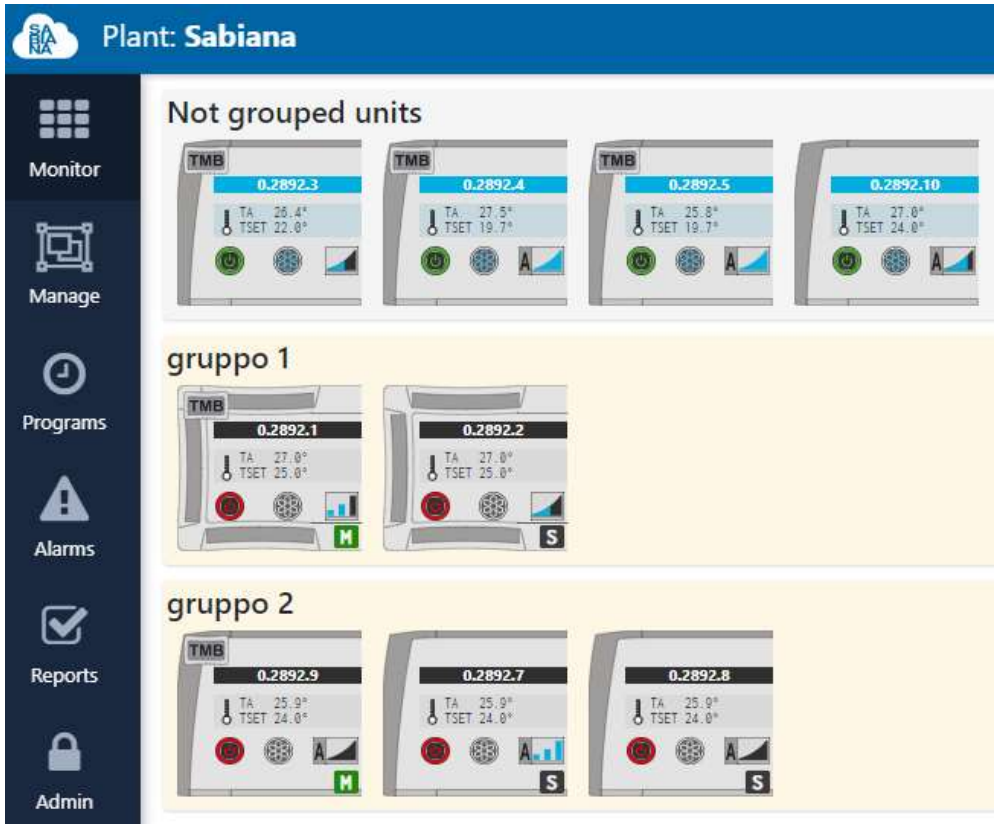
Monitor

The system units will appear on the «Monitor» page. If some units have not been detected, proceed by checking the previous points: wiring, addressing.



Graphic pages

- ✓Monitor: manual unit controls, reading parameters.
- ✓Manage: change of unit name, creation of groups,creation of master/slave networks, SIOS board management.
- ✓Programs : program creation and association of the program to the group.
- ✓Alarms : alarm display.
- ✓Reports: unit status change,program execution.
- ✓Admin: Sabianet configuration.



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