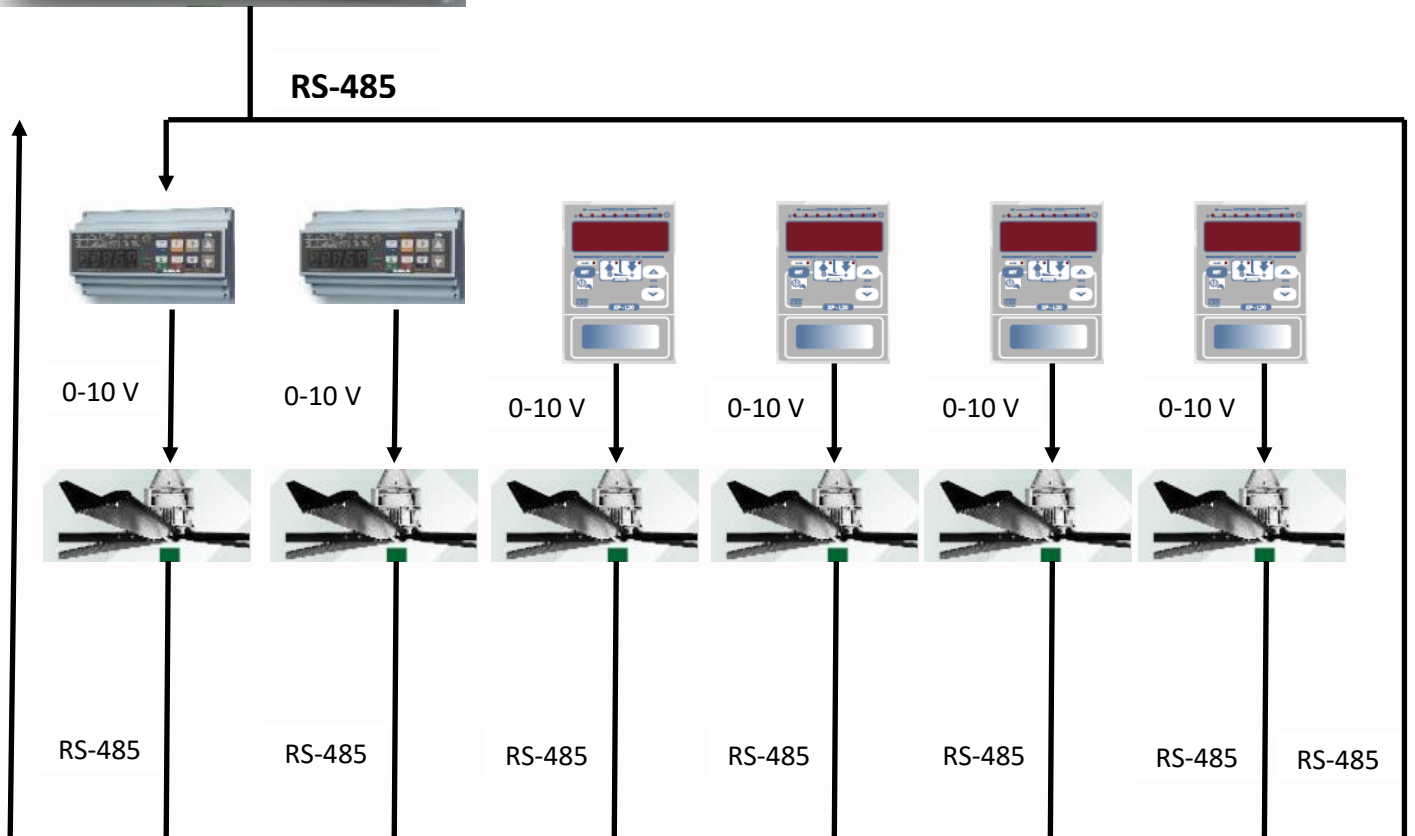


MASTER FARM – COWS PROJECT



The MASTER FARM System communicates with:

- N°2 Global control box
- N° 2 XP-L20 control box
- N°2 XP-L22 control box
- Up to 20 Brushless motors



Rappresentative diagram

RS-485

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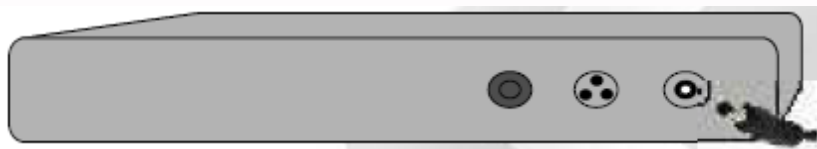
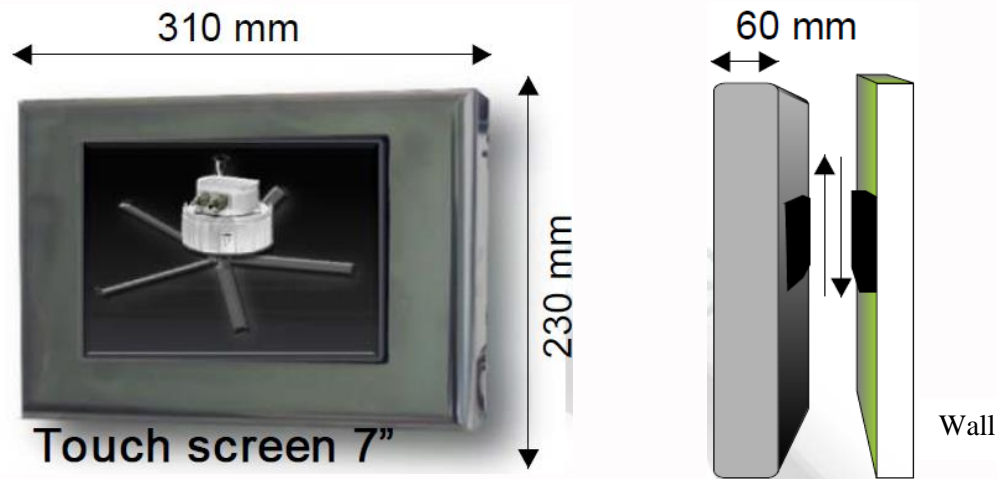
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DIMENSIONS:

MATERIAL: Stainless steel



Power 220 V

Features of the Touch Screen Monitor

POWER SUPPLY

Power 24 v Dc

Max consumption 0.6 A

RESISTANCE HUMIDITY LEVEL

Working 10%....80%

INPUT

Network RS-485 default

Protocol Modbus Standard

OUTPUT

Gate 1 Ethernet

Gate 2 USB

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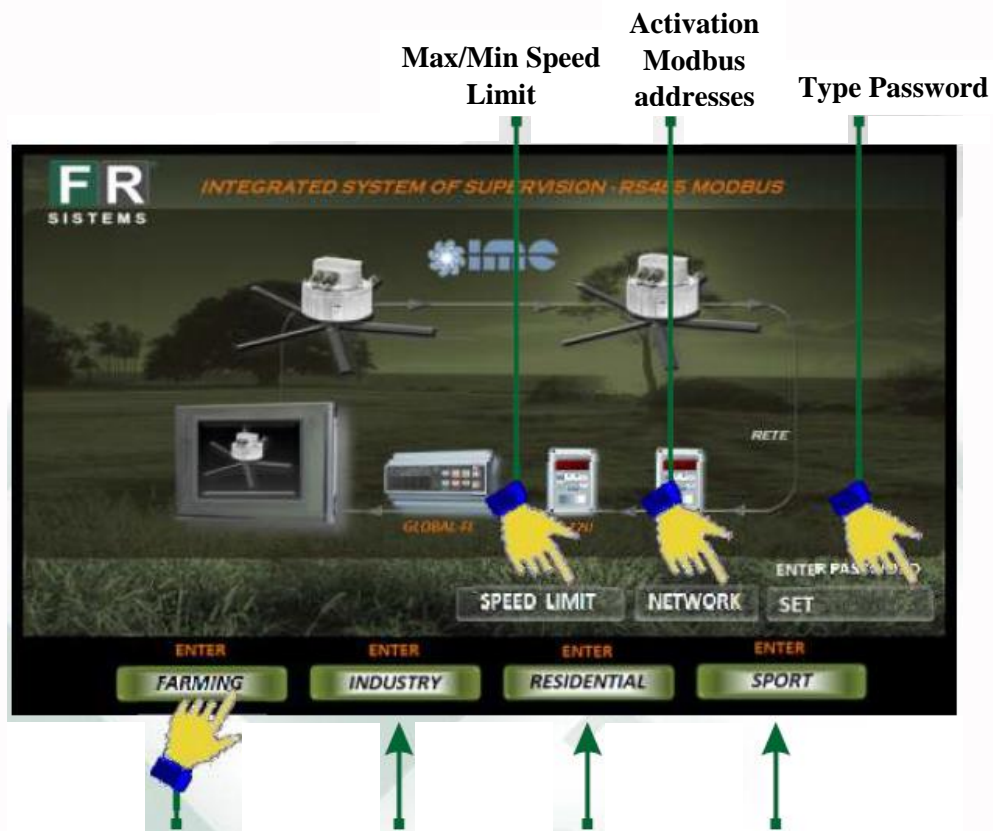
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PRESENTATION SCREEN



SELECT TYPE OF INSTALLATION



In order to enter into the Speed limit or Modbus address page, it is required a password (10 as default)

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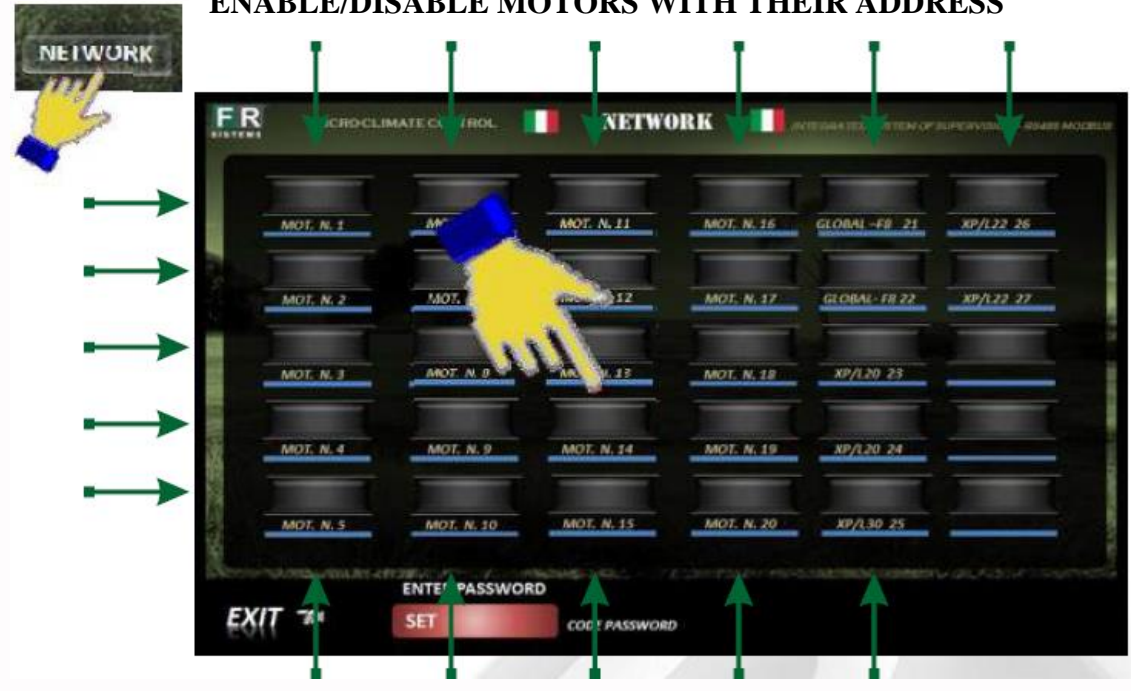
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ENABLE/DISABLE MOTORS WITH THEIR ADDRESS



SET THE MAXIMUM AND MINIMUM SPEED FOR EACH MOTOR (RPM)



PER USCIRE

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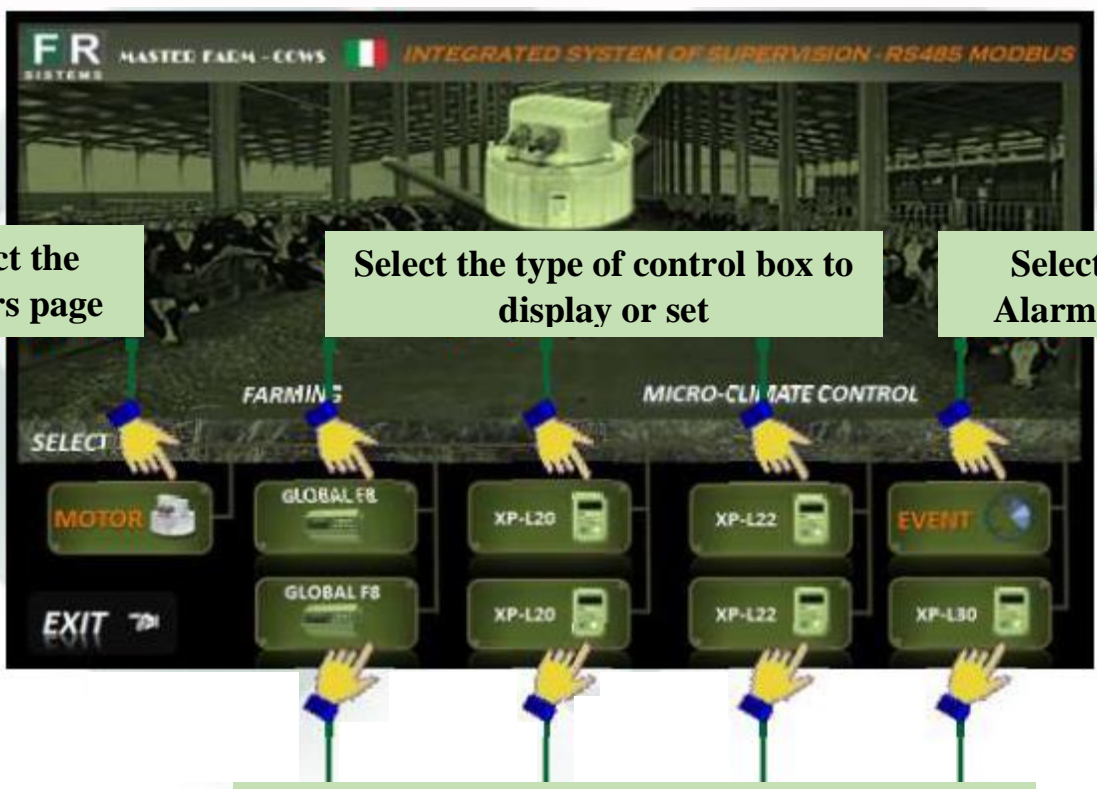
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FARMING



Select the type of control box to display or set

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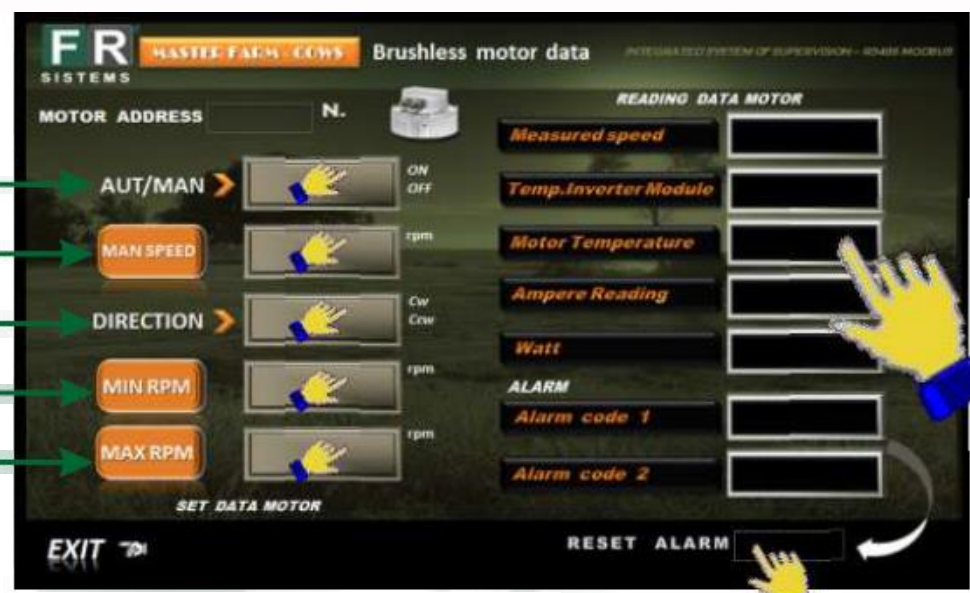


Page brushless motors



Write the number of the motor that you want to see

- Manual/Automatic mode
- Manual set of the RPM
- Set the direction cw/ccw
- Set Min RPM
- Set Max RPM



Reading data motor



Alarm reset

TO EXIT

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GLOBAL/ F 8 HOME PAGE



- Record
Page
- Ventilation
Page
- Sprinkler
Page
- Humidity
Page
- Wind
Page
- Timer
Page
- Alarm
Page

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VENTILATION PAGE



Page ventilation
GLOBAL/F8

LEGEND:

- **SET VENT:** starting temperature of the ventilation
- **MIN SPEED:** % min rpm of the fan
- **MAX SPEED:** % max rpm of the fan
- **B-PROB:** range in °C to pass from min to max rpm
- **START:** % of rpm at the startup machines
- **T.H.I.:** Active/disactive perceived temperature
- **T.ON:** machine starting time
- **T.OFF:** machine shutdown time
- **SPEED:** % actual speed



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SPRINKLERS PAGE



Page showers
GLOBAL/F8

LEGEND:

- **SET H2O:** starting temperature of sprinklers
- **ACTIVE:** active/disactive sprinklers
- **TIME START:** sprinklers starting time
- **TIME STOP:** sprinklers shutdown time
- **RELATION:** on/off to link with the ventilation temperature
- **OFF-SET:** difference of temperature with the ventilation
- **N.B.:** sprinklers hysteresis
- **LIMIT:** % early deceleration time of the fan at the opening of the sprinklers
- **T.DECEL:** indicate how many seconds before the sprinklers starting, slowing down the fan
- **BLO-VENT:** on/off block ventilation at the sprinklers starting
- **T.ON1 T.ON2 T.ON3 T.ON4:** duration in seconds of each configuration
- **T.OFF1 T.OFF2 T.OFF3 T.OFF4:** break in seconds between two starting of the same configuration
- **DT.2 DT.3 DT.4:** ranges in temperature degrees to which to start the configurations of the sprinklers



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HUMIDITY PAGE



Page umidity
GLOBAL/F8

LEGEND:

- **SET RH%:** Set the Humidity at which the sprinklers stop working
- **BLOCK H2O:** Active/disactive sprinklers when the humidity set is reached
- **ACTIVE R.:** active/disactive optional relay
- **N.B.:** relay hysteresis

WIND PAGE



Page wind
GLOBAL/F8

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LEGEND:

- **SET WIND:** set the wind speed at which the ventilation stops working
- **DELAY:** waiting time before restarting the ventilation after windy conditions
- **BLO.VENT.:** active/disactive block of the ventilation
- **N.B.:** anemometer hysteresis



CLOCK PAGE



Page time
GLOBAL/F8

LEGEND:

- **CLOCK:** on/off system timed switching on
- **SET CLOCK FUNCTION:** 1 or 2 timed switching
- **CLOCK 1 E CLOCK 2:** first and second switching
- **SET FROM:** start-up time
- **SET TO:** shutdown time



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ALARM PAGE



Page alarm
GLOBAL/F8

LEGEND:

- **SET MAX:** set max temperature alarm
- **SET MIN:** set min temperature alarm



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RECORD PAGE



Page record day
GLOBAL/F8

LEGEND:

- **RECORD DAY:** on this screen are recorded every 15 min. the following data: Temperature, Humidity, Wind Speed, THI



Page record story
GLOBAL/F8

LEGEND:

- **RECORD DAY:** in this screen are saved all the measurements taken previously. Storing up to 1000 day of: Max / Min Temp, Max/ Min Humidity, Max/ Min Wind Speed, Max / Min THI



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XP-L20 HOME PAGE



Recordn Page

Ventilation Page

Sprinklers Page

Alarm Page

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VENTILATION PAGE



Page ventilation
XP-L22

LEGEND:

- **SET VENT:** starting temperature of the ventilation
- **MIN SPEED:** % min rpm of the fan
- **MAX SPEED:** % max rpm of the fan
- **B-PROB:** range in °C to pass from min to max rpm
- **START:** % of rpm at the startup machines



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SPRINKLERS PAGE



Page showers
XP-L22

LEGEND:

- **SET H2O:** starting temperature of sprinklers
- **N.B.:** sprinklers hysteresys
- **LIMIT:** % early deceleration time of the fan at the opening of the sprinklers
- **T.DECEL:** indicate how many seconds before the sprinklers starting, slowing down the fan
- **BLO-VENT:** on/off block ventilation at the sprinklers starting
- **T.ON1 T.ON2 T.ON3 T.ON.4:** duration in seconds of each configuration
- **T.OFF1 T.OFF2 T.OFF3 T.OFF.4:** break in seconds between two starting of the same configuration
- **DT.2 DT.3 DT.4:** ranges in temperature degrees to which to start the configurations of the sprinklers



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RECORD AND ALARM PAGE



Page alarm
XP-L22

LEGEND:

- **SET MAX:** set max temperature alarm
- **SET MIN:** set min temperature alarm



Page record day
XP-L22



LEGEND:

- **RECORD DAY:** on this screen are recorded every 15 min. the following data: Temperature, Wind Speed



Page record story
XP-L22



LEGEND:

- **RECORD DAY:** in this screen are saved all the measurements taken previously. Storing up to 1000 day of: Max / Min Temp, Max / Min wind speed

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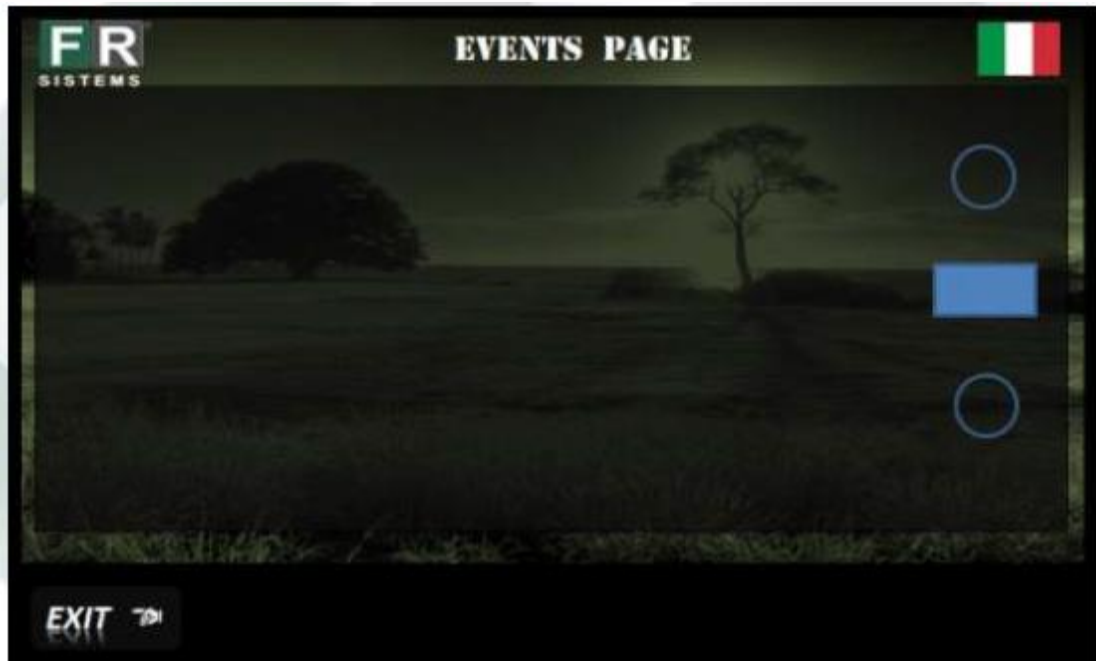
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EVENT HOME PAGE



LEGEND:

- **EVENT:** on this screen are stored all the alarms occurred to the inverter, motor and connection Modbus RS-485, with date, time and the equipment involved.

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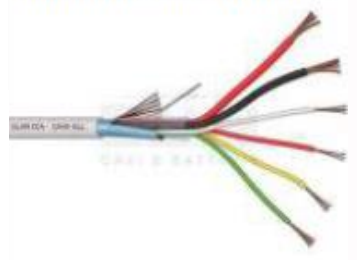
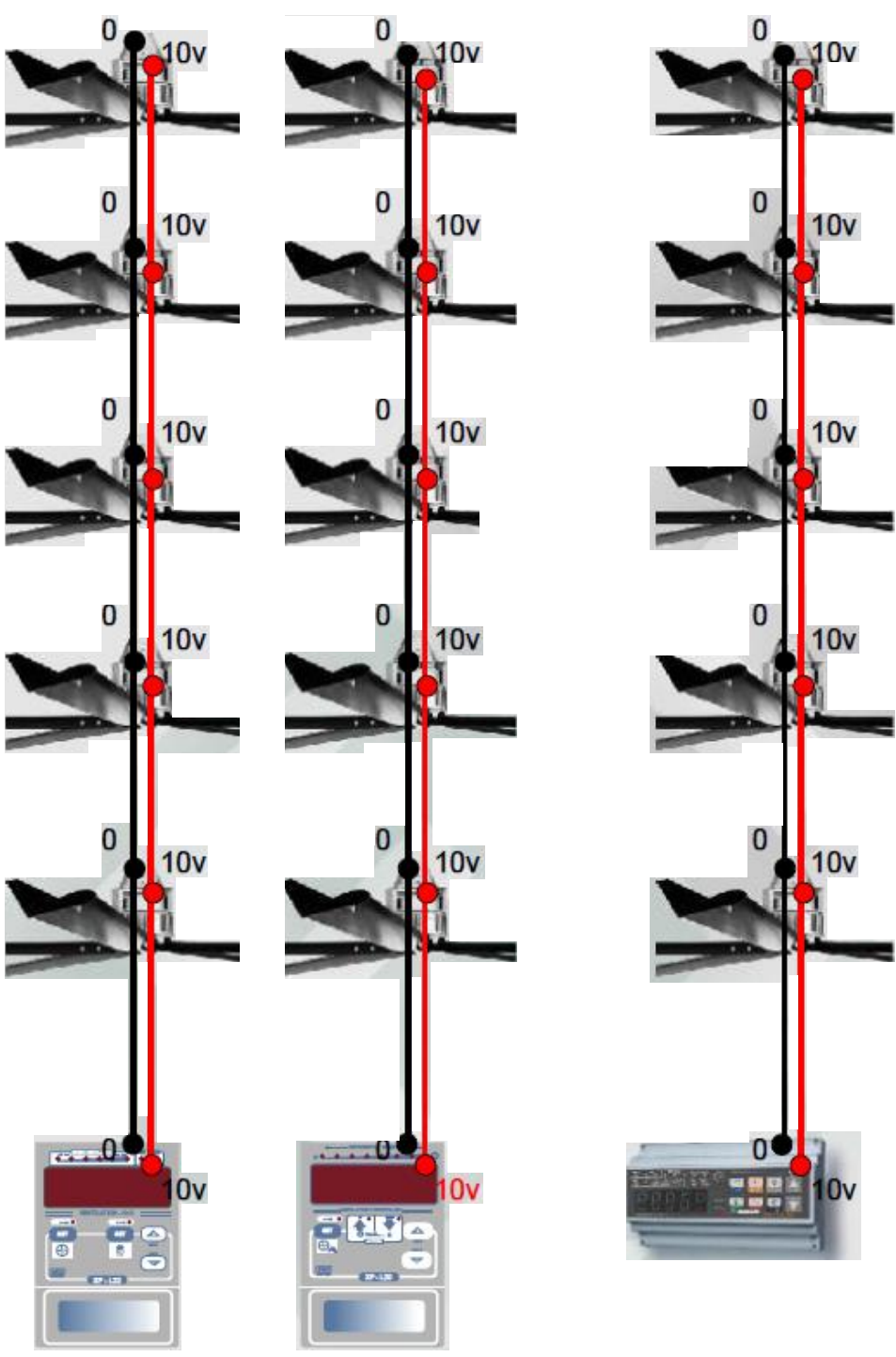
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Signal 0-10 V Electric connections



Shielded twisted cable



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