



Products Catalog 2008



:: TECOS LINE



TECOS III is a tele-crono-thermostat that allows the total control of the room temperature, both directly using keys and display, both in remote mode using SMS.

TECOS III come from the experience of the TECOS' family, widely used and appreciated as ambient temperature control for:

- Multi zone houses
- Mountain apartments and holidays houses
- Industry rooms and offices

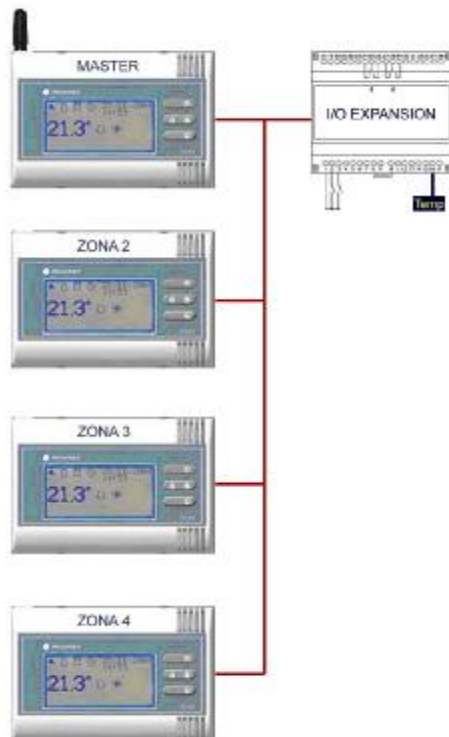
Continuously added functions, give to TECOS a unique device, smart to use but strong for features, and it come with a price/performance ratio never seen.

The maximum allowable configuration is shown below, with the I/O expansion designed for alarm inouts, relays outputs, and external temperature sensor.

The TECOS family devices are connected and share data by our PICOBUS that is a proprietary 3 wire bus.

TECOS III can be used to drive in ON-OFF mode:

- House heater .
- Zone valves.
- Circulation pumps
- Fan-Coil
- Electric radiators



:: TECOS III master

TECOS III is a Tele-Chrono-Thermostat that allows the total control of the room temperature, both directly using keys and display, both in remote mode using SMS on the popular GSM network.

TECOS III is a special Chrono Thermostat that measures temperature through a probe and drives output to activate or deactivate the heating/cooling system so to keep the temperature required.

It is possible to set a low temperature alarm to get a SMSs alarm message. The powerful Chrono thermostat function allows setting of daily set points at certain hours with different temperatures, for every week day Also you can choose Winter/Summer logic.

This is quite a powerful temperature control not only for residential use but for professional use only.

TECOS III can help you avoiding energy waste and giving a real money saving.

If you have a house in the mountains and want to make sure temperature is kept correctly, TECOS III is the professional solution you want.

If you are like many homeowners and work outside the home during the day and have a different schedule on the weekend, a programmable thermostat can offer many benefits, and the return on your investment is usually within 1 year.

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- Fan-Coil .
- Electric radiators.



Mechanical and Electrical Specifications

- Voltage Supply 9...12V Vcc
- Battery back-up (48 ore of standby mode)
- Quarter Hours step temperature setting
- Heating or cooling working mode
- 3 setpoints for temperature levels + anti freeze, 15 minute steps
- Functions: Crono-thermostat, Manual, Timered Manual, Antifreeze, Pump Antigrip, Room Clean, Off
- Other 3 "slave" devices can be connected in order to have a multi zone control system.
- Remote control by SMS
- Setup by 4 keys and display
- Big graphic Blue LCD with controlled backlight
- Power fail alarm , programmable from 1 to 99 min
- Modem dual band GSM900/GSM1800
- GSM antenna on the device
- Every kind of SIM card acceptable
- Working temperature: 0-55°C
- Working Humidity: 80% HR max
- Wall mount box: 120x90x25 mm

:: TECOS ZONE expansion

TECOS ZONE modules are designed to allow the remote control of a multi-zone house, using only one MASTER device equipped with GSM modem, so using only one SIMcard

With only one Master device other 3 slave device can be driven having a 4 zone control system.

The 3 wire bus also provide power supply to slave devices

TECOS Zone can be used to drive in ON-OFF mode:

- House heater .
- Zone valves.
- Circulation pumps.
- Fan-Coil .
- Electric radiators.



Mechanical and Electrical Specifications

- Voltage Supply 9...12V Vcc
- Battery back-up (48 ore of standby mode)
- Quarter Hours step temperature setting
- Heating or cooling working mode
- 3 setpoints for temperature levels + anti freeze, 15 minute steps
- Functions: Cronotermostat, Manual, Timered Manual, Antifreeze, Pump Antigrip, Room Clean, Off
- To be connected to the MASTER device in order to have a multi zone control system
- Remote control by SMS thru MASTER device
- Setup by 4 keys and display
- Big graphic Blue LCD with controlled backlight
- Power fail alarm , programmable from 1 to 99 min
- Working temperature: 0-55°C
- Working Humidity: 80% HR max
- Wall mount box: 120x90x25 mm

:: TECOS I/O expansion

TECOS line is fulfilled by the I/O expansion module, required when the installation need for additional Inputs and outputs.

This module, to be installed on the “omega” rail will be installed in the technical room, so it may send SMS alarms in case of boiler problems.

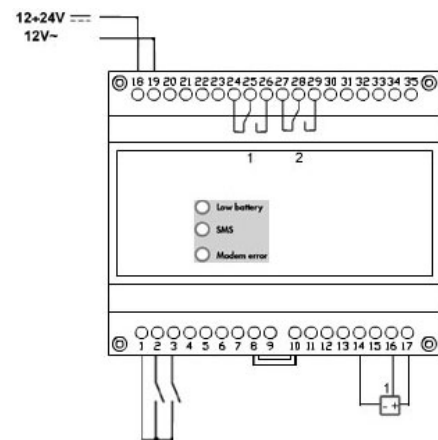
The relays may act a lot of functions: reset, or ON/OFF the whole installation.

Also an optional external temperature sensor can be connected and send upon request the read temperature.



Mechanical and Electrical Specifications

- Power supply 9...12V Vcc from PICOBUS
- 2 relays 10A@250V
- 2 digital inputs
- 1 input for DS18S20 temperature sensor
- Local buzzer
- Working temperature: 0-55°C
- Working Humidity: 80% HR max
- BOX EN-50022, 6 modules
- Weight: 200g



:: SICOS LINE



SICOS Family is a special, powerful GSM remote control, that come in different versions each with a specific input/output configuration to fulfill the user needs.

:: **SICOS Entry Level** – For basic applications – 1 Output relay, 1 input for temperature sensor. It can also be use as a simple thermostat using special software setting.

:: **SICOS C++** - Designed for medium applications - 2 Output relays, 2 digital inputs, 1 temperature sensor input. It can also be use as a simple thermostat and/or a “zero cost” gate opener using special software setting

:: **SICOS LED Multimessage** – 4 Output relays, 8 digital optocoupled inputs, 4 temperature sensor inputs. It can also be use as a simple thermostat and/or a “zero cost” gate opener using special software setting, other than usual on/off remote controls.

:: **SICOS MASTER-SLAVE** – Bundle of a Multimessage module plus an Expansion module with the same I/O features, linked thru PICOLINK bus allows having up to 8 relays and 16 digital optocoupled inputs. Master and slave modules can be placed up to 25 meters one from the other.

:: SICOS ENTRY

SICOS is a powerful but smart device coming from the experience in telecontrol systems and from the customer requests in field.

The device work with an internal GSM-GPRS dual band **Telit GM862** modem with battery backup.

SICOS ENTRY, will be installed in a DIN rail box and so allows the remote control of devices that does not had this feature.

I it will be done in an easy and cheap way.

A wide series of software features are designed to send remote control commands and require the acknowledge of the sent command.

1 Output relay, 1 input for temperature sensor.

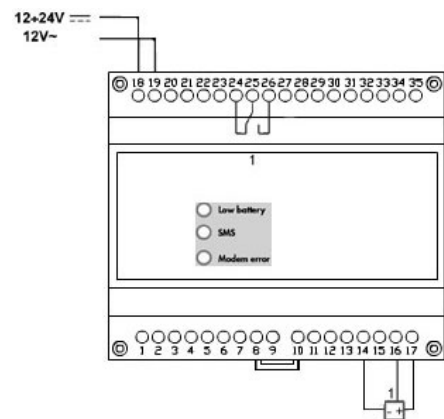
It can also be use as a simple thermostat or as a "zero cost" gate opener using the special software setting

USB connection to easy setup and parameter configuration thru free "SICOS MANAGER" software.



Mechanical and Electrical Specifications

- Voltage Supply 12 Vcc or 9715 Vca
- Li-Ion Battery backup
- 1 relay 10A@250V
- 1 input for DS18S20 digital temperature sensor
- Local alarm buzzer
- Modem dual band GSM900/GSM1800
- External GSM antenna requested
- Every kind of SIM card acceptable
- Working temperature: 0-55°C
- Working Humidity: 80% HR max
- BOX EN-50022, 6 modules
- Weight: 200g



:: SICOS C++

SICOS is a powerful but smart device coming from the experience in telecontrol systems and from the customer requests in field.

The device work with an internal GSM-GPRS dual band **Telit GM862** modem with battery backup.

SICOS ENTRY, will be installed in a DIN rail box and so allows the remote control of devices that does not had this feature.

It will be done in an easy and cheap way.

A wide series of software features are designed to send remote control commands and require the acknowledge of the sent command.

2 Output relays, 2 digital inputs, 1 input for temperature sensor.

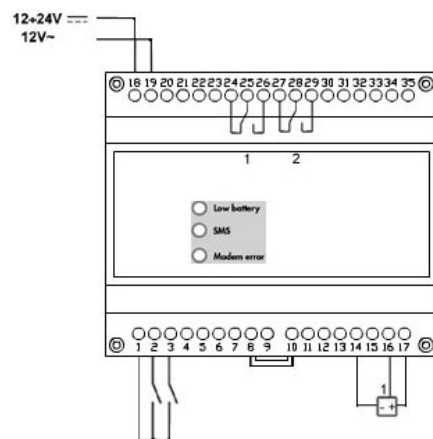
It can also be use as a simple thermostat and as a "zero cost" gate opener using the special software setting

USB connection to easy setup and parameter configuration thru free "SICOS MANAGER" software.



Mechanical and Electrical Specifications

- Voltage Supply 12 Vcc or 9715 Vca
- Li-Ion Battery backup
- 2 relay 10A@250V
- 2 digital inputs
- 1 input for DS18S20 digital temperature sensor
- Local alarm buzzer
- Modem dual band GSM900/GSM1800
- External GSM antenna requested
- Every kind of SIM card acceptable
- Working temperature: 0-55°C
- Working Humidity: 80% HR max
- BOX EN-50022, 6 modules
- Weight: 200g



:: SICOS MULTIMESSAGE

SICOS is a powerful but smart device coming from the experience in telecontrol systems and from the customer requests in field.

The device work with an internal GSM-GPRS dual band **Telit GM862** modem with battery backup.

SICOS ENTRY, will be installed in a DIN rail box and so allows the remote control of devices that does not had this feature.

It will be done in an easy and cheap way.

A wide series of software features are designed to send remote control commands and require the acknowledge of the sent command.

4 Output relays, 8 digital optocoupled inputs, 4 input for temperature sensors.

It can also be use as a simple thermostat and as a "zero cost" gate opener using the special software setting

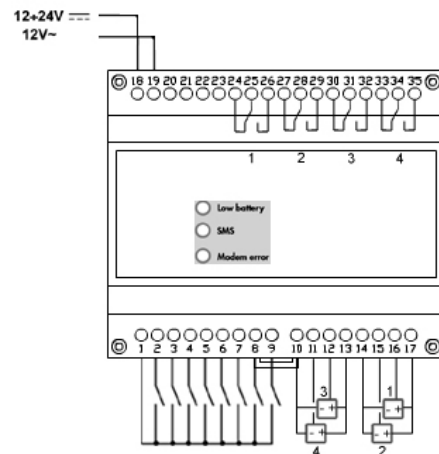
PICOLINK port for expansion module

USB connection to easy setup and parameter configuration thru free "SICOS MANAGER" software.



Mechanical and Electrical Specifications

- Voltage Supply 12 Vcc or 9715 Vca
- Li-Ion Battery backup
- 4 relay 10A@250V
- 8 digital optocoupled inputs
- 4 input for DS18S20 digital temperature sensor
- Local alarm buzzer
- Modem dual band GSM900/GSM1800
- External GSM antenna requested
- Every kind of SIM card acceptable
- Working temperature: 0-55°C
- Working Humidity: 80% HR max
- BOX EN-50022, 6 modules
- Weight: 200g



:: SICOS Expansion module

SICOS Expansion is designed to add an I/O expansion to the SICOS Multimessage module, that acts as a MASTER device.

Bundle of a Multimessage module plus an Expansion module with the same I/O features, linked thru PICOLINK bus allows having up to 8 relays and 16 digital optocoupled inputs. Master and slave modules can be placed up to 25 meters one from the other.

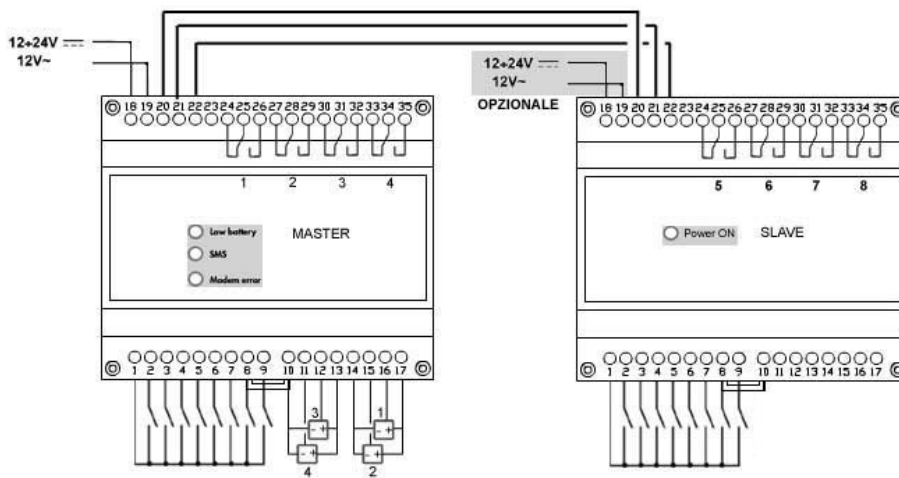
4 Output relays, 8 digital optocoupled inputs.

PICOLINK port for Master module connection.



Mechanical and Electrical Specifications

- Voltage Supply 12 Vcc or 9715 Vca
- 4 relay 10A@250V
- 8 digital optocoupled inputs
- Working temperature: 0-55°C
- Working Humidity: 80% HR max
- BOX EN-50022, 6 modules
- Weight: 150g



:: RS 485 I/O REMOTE EXPANSION

I/O Remote expansion is designed to provide extra inputs and outputs in plants where i/o are shared widely and driven by RS-485.

The RS-485 interface and the 8 digital optocoupled inputs shows a galvanic insulation of 2500 Vrms, provided by two separate optocoupled circuits.

The RS-485 can be used on a network up to 1200mt and 255 devices

The ID of the device can be set by the local keys and the ID is shown by the LED display.

Also relays can be set or reset in local mode using keys.

Other LED shown the output state, inputs state, Bus traffic, power supply, secondary DCDC power supply.

Power supply extended range from 12 to 30Vdc/24Vac.

Option available:

USB interface

Static relays PANASONIC AQZ204



Mechanical and Electrical Specifications

- 6 relays 10A@250V PANASONIC JW1
- 8 optocoupled digital inputs
- local alarm buzzer
- LED for main power supply and DC DC power supply indication
- LED for RS-485 bus traffic
- Power supply 12 a 30Vdc/24Vac
- Working temperature: 0-55°C
- Working Humidity: 80% HR max
- BOX EN-50022, 9 modules
- Weight: 300g

:: RS 485 TERM

RS 485 Term is designed to work as a end-of-line device, as provide the right impedance matching and transient/spike suppression.

LED shown the , Bus traffic, and Power supply.

Power supply extended range from 12 to 30Vdc/24Vac.

The RS 485 Term shows a galvanic insulation of 2500 Vrms, provided by optocoupled circuits.



Mechanical and Electrical Specifications

- Power supply 12 a 30Vdc/24Vac
- LED for main power supply indication
- LED for RS-485 bus traffic
- Temperatuta operativa 0-55°C (con possibilità di funzionamento in condizioni estreme da -10°C a +65°C)
- Working temperature: 0-55°C
- Working Humidity: 80% HR max
- BOX EN-50022, 2 modules
- Weight: 70g

:: ACCESSORI e SPARE PARTS

800mA Li-ION battery

This is the standard battery used on the PICOTEC systems

The battery come with the "Safety Unit" circuit required to avoid short circuit and overcharge problems

The battery pack has a 60mm cabling and a 2,54 (100mils) connector so it can be used even for other applications. BE SURE that the charge circuit provide charge with 4,2V max.



Power Supply 9V 500mA

This power supply is suggested for TECOS products family as it can be easily fitted in the wall boxes called "503"

As it is a standard power suppli can be also used fot other applications.

It is provided with CE and safety certifications.

Box also include a little screwdriver useful for the power supply connector screws



GSM Antenna

This GSM antenna is suggested for SICOS family products.

9 cm lenght with flex feature, FME female connector, 870 to 960MHz/1710 to1990 MHz





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