NEW
7 years
WARRANTY

EOLIS 3000

EOLIS 3000P reinvents measure, conversion and transmission

- EOLIS 3000P double inputs design allows to have 2 transmitters in a 22,5mm width case.
- EOLIS 3000P design allows a double remote input/output interface in 1 case.
- EOLIS 3000P is using the new wiring base system unpluggable from its rail DIN base : BASELINE.
- Its graphic screen display, and it's joystick make it an user-friendly and easily programmable device.
- Its USB front face socket enables a very simple programmation with PC.
- Its sharp technology allows EOLIS 3000P to have exceptional characteristics.

JM Concept
une vision d'avance

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EOLIS 3000

EOLIS 3000P is a double transmitter : each channel independent and isolated owns a process input with a sensor power supply, one 2 wires PT100 input and 1 current and/or voltage output.

EOLIS 3000P offers 2 or 4 relays outputs.

EOLIS 3000P has also a RS485 modbus, digital output and an USB front face socket allowing a very simple programmation with PC thanks to the free sofware SETLINE.

EOLIS 3000P is designed in 22.5mm or in 45mm width case, with or without graphic screen display, and joystick, according to references.

EOLIS 3000P offers a complete devices range allowing solutions to all applications.

INPUT CHANNEL 1	INPUT CHANNEL 2	OUTPUTS	COMMUNICATION
Current	Current	Current	RS485
Voltage	Voltage	Voltage	USB
Sensor power supply	Sensor power supply	2 Relays	
PT100 2 wires	PT100 2 wires	4 Relays	

Each input/output is isolated and totally independent

ALWAYS MORE PERFORMANCES FOR EOLIS 3000P

EOLIS 3000P is a transmitter offering exceptional performances.

- Digital 24 bits analogue input conversion.
- Digital 16 bits analogue output conversion.
- 5000Vdc - 3750Vac 1mn 50Hz isolation.
- Modbus address mapping, enables to choose your own parameter address and decrease response time.
- USB front face socket enable to connect with PC USB.

EOLIS 3000P is easily programmable with a PC and the free dowloadable software : SETLINE.

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EOLIS 3000 : INPUT FUNCTIONS

DISPLAY	LCD graphic screen display (according to references)
INPUTS DISPLAY	LCD graphic screen enables to display, the inputs in physical or programmed value.
OUTPUTS DISPLAY	LCD graphic screen enables to display outputs, in physical value or in percent, it also displays alarms status.
PROGRAMMATION	Programmation with 5 ways JOYSTICK on front face
INPUT CHANNEL 1	Current; Voltage; 2 Wires PT100; Channel 1 is isolated and independent from channel 2
INPUT CHANNEL 2	Current; Voltage; 2 Wires PT100; Channel 2 is isolated and independent from channel 1
CALCULATION MODE	Input 3 = a x Input 1 + b x Input 2 (Converter equals to 3 inputs).
OFFSET	Input OFFSET settings for all types of inputs.
TARE SETTING	Tare function on process inputs.
SIMULATION	Pilote function allows action concerning analogue, relays, digital, outputs (RS485 & USB) and the display separately from the input and without disconnecting input or ouptuts. Pilote function can be activated either on digital output (RS485 or USB) or with front face joystick. Using this function EOLIS 3000P become a double remote input/output interface.

EOLIS 3000 : OUTPUT FUNCTIONS

OUTPUTS ASSIGN	Analogue outputs can be separately assigned for each channel.
RELAY ASSIGN	Relays outputs can be separately assigned for each channel.
OUTPUTS LIMIT	Open the possibility of outputs limitation – High Limitation or Low Limitation.
MEMORISATION	Open the possibility to memorise the last measured value in case of error.
ALARMS RESET	Separately on each alarm.
ALARMS MEMORISATION	Separately on each alarm.
USB	USB front face socket enables to connect with PC for a very simple device configuration via SETLINE software.
MAPPING	Modbus address mapping enables to choose your own parameter address and decrease response time.
DIGITAL BUS	Digital bus access through USB socket (when EOLIS 3000P is plugged on multichannel wiring bases)
REMOTE INPUT/OUTPUT	Digital output and pilote mode simultaneously used allow EOLIS 3000P to become a double remote input/output interface.

EOLIS 3000P : OTHER FUNCTIONS

INPUT SCALE FACTOR	Enables to provide a magnifying effect on input in manual or in automatic calibration.
OUTPUT SCALE FACTOR	Enables to provide a magnifying effect on outputs and display.
MINI / MAXI MEMORY	Maxi and mini measurement value memorizing for each channel.
SAFETY SENSOR	Shows sensor break display, on digital output on analog output(s) (by entering drop out value), and on relays outputs, independent for each output.
100 POINTS LINEARIZATION	100 points linearization (free choice for each point) allows to create an output function by input signal segmentation.
SQUARE ROOT	Output(s) is/are the square root of input.
THRESHOLDS	Simple mode or band-mode with positive or negative safety.Threshold, hysteresis and temporization adjustment (separately from the rise or the fall). Direct access to the thresholds. Alarm memorizing and alarm deleting.
OTHER FUNCTIONS	Cut OFF ; Résolution ; Comma ; Filtering ; Contrast setting ; Programmation mode, Display light off ; Joystick lock.
COMMUNICATION	Each convertor has a bidirectional digital output : RS485 Modbus. so it is possible to recover measurements and to send them in digital, but it is also possible to configurate and to drive the transmitter.This digital output is double over with USB socket on front face.

EOLIS 3000P : TECHNICAL CHARACTERISTICS

INPUT SCALE ON EACH CHANNEL	
CURRENT (DC)	Standard scales : 0/20mA ; 4/20mA Adjustable scale : From 0mA to 22mA
VOLTAGE (DC)	Standard scales : 0/100mV ; 0/10V Adjustable scales : From 0 to 110mV - From 0V to 11V
2 WIRES PT 100	Standard scales : -210°C /850°C Adjustable scale : down and full scale setting
SENSOR POWER SUPPLY	2 wires sensor - Sensor power supply : 24V - 26mA max
OUTPUT SCALES	
OUTPUT 1 CURRENT	0/20mA 4/20mA - From 0 to 20mA
OUTPUT 1 VOLTAGE	0/10V - From 0 to 10V
OUTPUT 2 CURRENT	0/20mA 4/20mA - From 0 to 20mA
OUTPUT 2 VOLTAGE	0/10V - From 0 to 10V
RELAY OUTPUT	C/O N/O
COMMUNICATION	USB isolated on front socket output. RS 485 Modbus isolated on BASELINE

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EOLIS 3000P : TECHNICAL CHARACTERISTICS

INPUT IMPEDENCE : INPUT 1 AND 2	
Current input	4,75Ω
Voltage input	> 10 MΩ
PT100 input	Courant : 0,3mA
OUTPUT IMPEDENCE : OUTPUT 1 AND 2	
Current output	< 1000Ω
Voltage output	> 1kΩ
RELAY OUTPUT	
Relay	C/O or N/O : 2A/250Vac N/C on request
GENERAL CHARACTERISTICS	
Precision class	0.1
Analogue/digital input conversion	24 bits
Digital /analogue output conversion	16 bits
Response time	< 180ms
Thermal drift	< 50ppm
Residual ripple Current output	< 20µA
Residual ripple Voltage output	< 10mV

EOLIS 3000P : OTHER CHARACTERISTICS

ISOLATION	
Power supply / Input 1 / Input 2	5000Vdc - 3750Vac, 50Hz, 1mn
Power supply / Output 1 / Output 2	5000Vdc - 3750Vac, 50Hz, 1mn
Input 1 / Output 1 / Output 2	5000Vdc - 3750Vac, 50Hz, 1mn
Input 2 / Output 1 / Output 2	5000Vdc - 3750Vac, 50Hz, 1mn
Input 1 / Input 2	5000Vdc - 3750Vac, 50Hz, 1mn
Output 1 / Output 2	5000Vdc - 3750Vac, 50Hz, 1mn
Input 1 - Input 2 / Digital output	3500Vdc - 2500Vac, 50Hz, 1mn
Output 1 - Output 2 / Digital output	3500Vdc - 2500Vac, 50Hz, 1mn
POWER SUPPLY	
Universal power supply	20Vdc /370Vdc & 80Vac /256Vac
Option	20Vac /60Vac
CONSUMPTION	
Maximum consumption	< 4VA
TEMPERATURE	
Operating temperature	-10°C / +60°C
Storage temperature	-25°C / +80°C
PROTECTION INDEX	IP20
CASE	Black self-extinguishable UL V0

EOLIS 3000P: OPTIONS REFERENCES

OPTIONS	PRODUCT CODE
Varnish of EOLIS	EOLIS 3x0xPx-T
Power supply 20Vac / 60Vac	EOLIS 3x09Px

EOLIS 3000P RANGE

EOLIS 3000P is declined in two ranges :

- Transmitters with graphic screen display, progammation joystick, and USB front face socket :

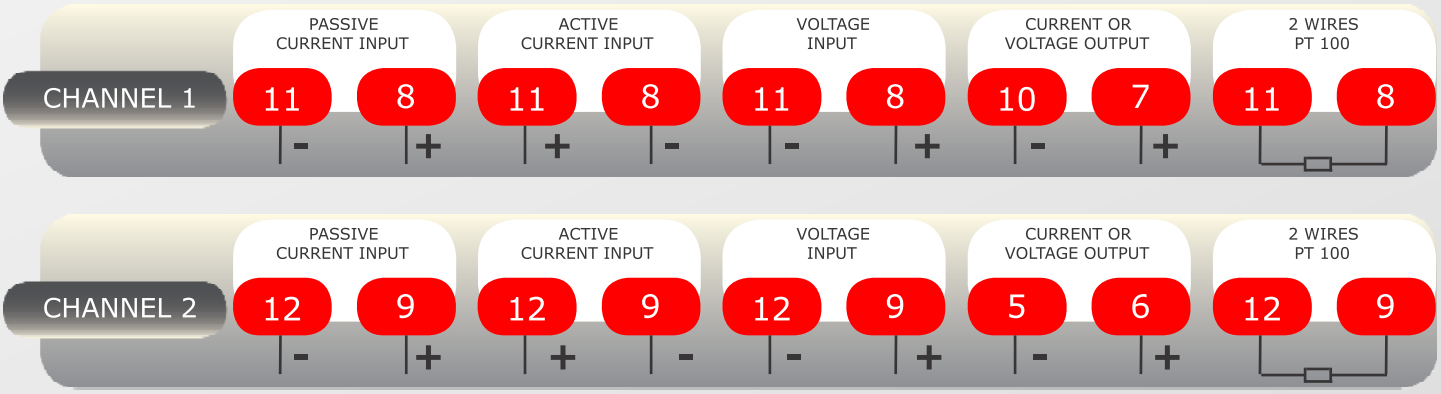
REFERENCES	INPUT CURRENT VOLTAGE 2 WIRES PT100 SENSOR POWER SUPPLY	OUTPUT 1	OUTPUT 2	OTHER OUTPUTS			CASE WIDTH	
		CURRENT OR VOLTAGE	CURRENT OR VOLTAGE	2 RELAYS	4 RELAYS	RS485 & USB	22,5 mm	45 mm
EOLIS 3000P0	●					●	●	
EOLIS 3000P2	●	●	●			●	●	
EOLIS 3200P0	●			●		●		●
EOLIS 3200P2	●	●	●	●		●		●
EOLIS 3400P0	●				●	●		●
EOLIS 3400P2	●	●	●		●	●		●

- Transmitters without graphic screen display, nor progammation joystick, but with USB front face socket :

REFERENCES	INPUT CURRENT VOLTAGE 2 WIRES PT100 SENSOR POWER SUPPLY	OUTPUT 1	OUTPUT 2	OTHER OUTPUTS			CASE WIDTH	
		CURRENT OR VOLTAGE	CURRENT OR VOLTAGE	2 RELAYS	4 RELAYS	RS485 ET USB	22,5 mm	45 mm
EOLIS 3000T0	●					●	●	
EOLIS 3000T2	●	●	●			●	●	
EOLIS 3200T0	●			●		●		●
EOLIS 3200T2	●	●	●	●		●		●
EOLIS 3400T0	●				●	●		●
EOLIS 3400T2	●	●	●		●	●		●

NEW 7 years WARRANTY

EOLIS 3000P : WIRING

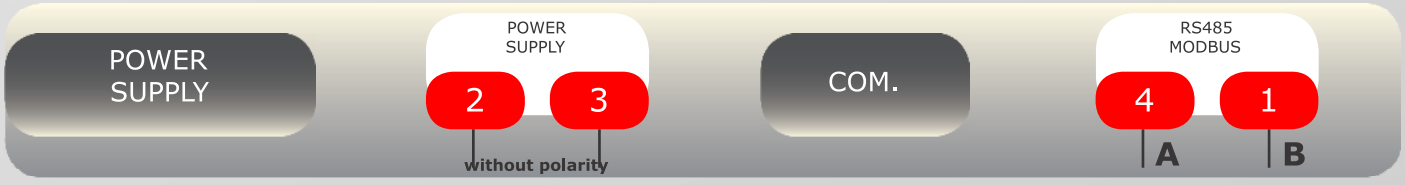


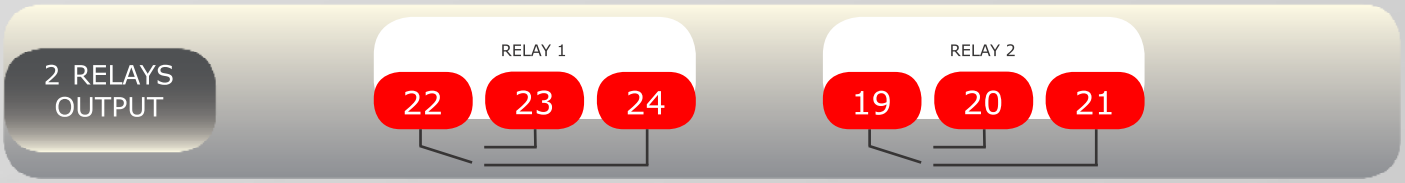
SETUP SWITCHES FOR INPUT CHANNELS

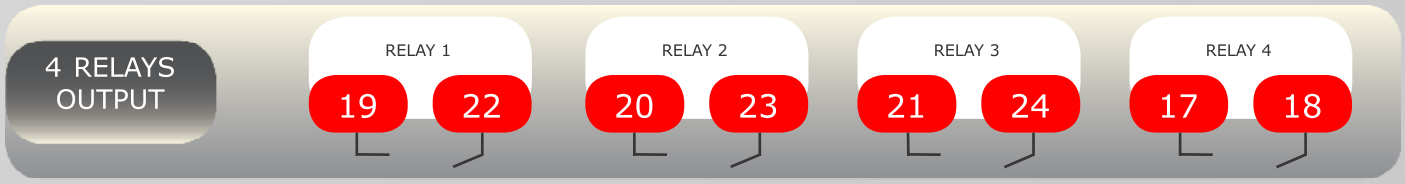
CHA. 1	INPUT SWITCH	1	2	3	4
OFF ON	I=mA	●			●
	U-<10V				●
	PT100		●		●
	Sensor power supply	●		●	

CHA. 2	INPUT SWITCH	1	2	3	4
OFF ON	I=mA	●			●
	U-<10V				●
	PT100		●		●
	Sensor power supply	●		●	

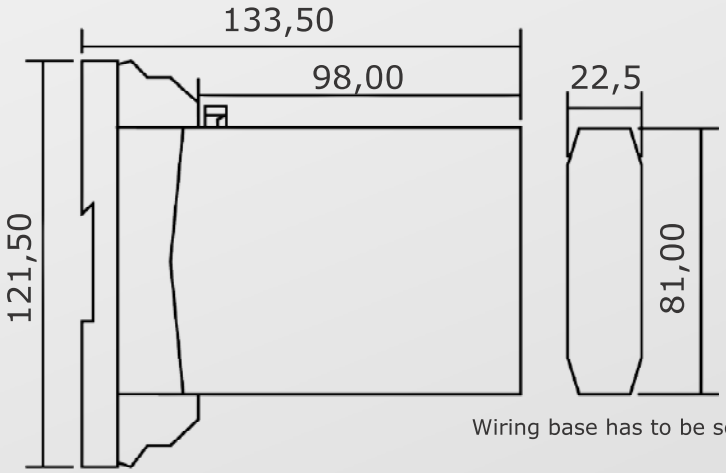
OTHER WIRING





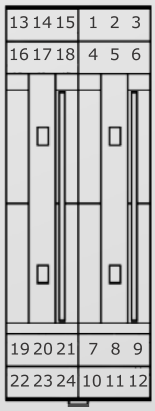


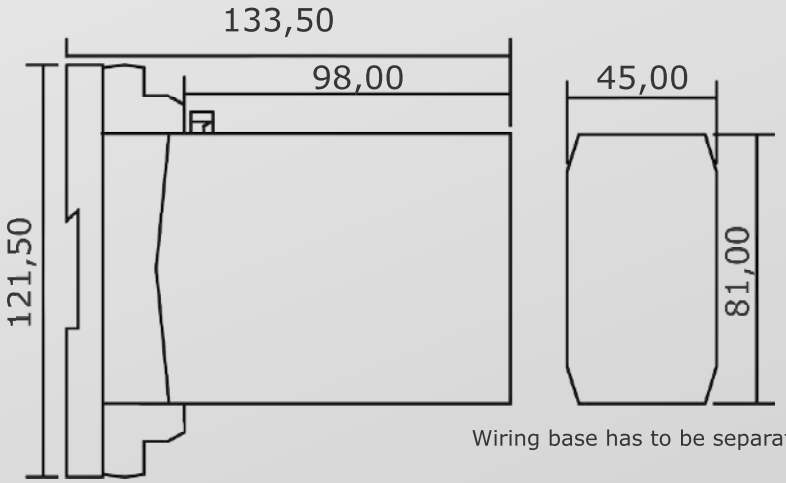
EOLIS 3000P : DIMENSIONS AND TERMINALS



Wiring base has to be separately ordered.

BASELINE
screw or spring terminals





Wiring base has to be separately ordered.

BASELINE
screw or spring terminals

EOLIS 3000P : FACTORY SET UP

Channel 1
Input : 4/20mA
Output : 4/20mA
Display : 0-100

Channel 2
Input : 4/20mA
Output : 4/20mA
Display : 0-100

Relays (C/O; N/O)
High Alarm
Setpoint : 150

Digital output speed : 9600bauds

Other settings on request

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SK23 - Non contractual datasheet.
Subject to change without notice