NEW
7 years
WARRANTY

EOLIS 6000

EOLIS 6000 DC power converter.

- EOLIS 6000 is particularly fitted to **photovoltaic installations**
- EOLIS 6000's double independent and isolated channels design allows the 2 inputs measurement and the DC power and average power calculation.
- EOLIS 6000 is using the new wiring base system unpluggable from its rail DIN base : BASELINE. Its USB front face socket enables a very simple programmation with PC.
- Its graphic screen display, and it's joystick make it an user-friendly and easily programmable device.
- EOLIS 6000 have to be wired before one or several solar panels strings and measures current, voltage and power delivered by those groups.

JM Concept
une vision d'avance

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EOLIS 6000

EOLIS 6000 is a transmitter with one 100mV input allowing current measurement (1 à 1000A) and one highvoltage input as far as 1500Vdc. Those 2 inputs allow DC power and average power calculation.

EOLIS 6000 offers current/voltage outputs and 2 or 4 relays outputs.

EOLIS 6000 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 6000 is designed in 22.5mm or in 45mm width case, with or without graphic screen display, and joystick, according to references.

EOLIS 6000 offers a complete devices range allowing solutions to all applications.

CHANNEL 1 INPUT	CHANNEL 2 INPUT	OUTPUT	COMMUNICATION
Tension	Current on external Shunt	Current	RS485
		Voltage	USB
		2 Relays	
		4 Relays	

Each input and output is isolated and independent from the others

EOLIS 6000 : FUNCTIONS

DISPLAY	LCD graphic screen display (according to references)
INPUTS DISPLAY	LCD graphic screen enables to display, the inputs in physical 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	Voltage
INPUT CHANNEL 2	Current on external SHUNT 0/100mV
SIMULATION	Simulation function allows action concerning analogue, relays, digital, outputs (RS485 & USB) and the display separately from the input and without disconnecting input or ouptuts. Simulation function can be activated on each input separately. Using this function EOLIS 6000 is able to calibrate.
OUTPUTS ASSIGN	Analogue outputs can be separately assigned for current, voltage or power.
RELAY ASSIGN	Relays outputs can be separately assigned for current, voltage or power.
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.

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EOLIS 6000 : FUNCTIONS

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 6000 is plugged on multichannel wiring bases)
INTEGRATION TIME	Adjustable from 1mn to 99mn
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.
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 communication : 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 6000 : CHARACTERISTICS

INPUT SCALE ON EACH CHANNEL	
VOLTAGE CHANNEL 1	Standard scale : 0/1500Vdc
	Adjustable scale : From 0 to 1500Vdc
CURRENT CHANNEL 2	Standard scale : 0/100mV - Shunt to foresee : 1 to 1000A
	Adjustable scale : From 0 to 100mV - Shunt to foresee: 1 to 1000A
	Other value on request
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 20 mA
OUTPUT 2 VOLTAGE	0/10V - From 0 to 10V
COMMUNICATION	USB isolated on front socket output
	RS 485 Modbus isolated on BASELINE
INPUT IMPEDENCE : INPUT 1 AND 2	> 10 MΩ
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

EOLIS 6000 : CHARACTERISTICS

Analogue/digital input conversion	24 bits
Digital /analogue output conversion	16 bits
Precision class	0.1
Response time	< 180ms
Thermal drift	< 50ppm
Residual ripple Current output	< 20µA
Residual ripple Voltage output	< 10mV
Integration time	0 to 99mn
ISOLATION	
Power supply/Input/Output	5000Vdc - 3750Vac, 50Hz, 1mm
Input/Output	5000Vdc - 3750Vac, 50Hz, 1mm
Input 1/Input2	5000Vdc - 3750Vac, 50Hz, 1mm
Output1/Output2	5000Vdc - 3750Vac, 50Hz, 1mm
Input/Output/Communication	3500Vdc - 2500Vac, 50Hz, 1mm
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 6000 : RANGE

EOLIS 6000 is declined in two ranges :

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

REFERENCES WITH GRAPHIC SCREEN	CURRENT & VOLTAGE INPUT ON 100mV SHUNT	OUTPUT 1	OUTPUT 2	OTHER OUTPUTS		COM.	CASE WIDTH		REFERENCES WITHOUT GRAPHIC SCREEN
		CURRENT OR VOLTAGE	CURRENT OR VOLTAGE	2 RELAYS	4 RELAYS	RS485 & USB	22,5 mm	45 mm	
EOLIS 6000P0	●					●	●		EOLIS 6000T0
EOLIS 6000P2	●	●	●			●	●		EOLIS 6000T2
EOLIS 6200P0	●			●		●		●	EOLIS 6200T0
EOLIS 6200P2	●	●	●	●		●		●	EOLIS 6200T2
EOLIS 6400P0	●				●	●		●	EOLIS 6400T0
EOLIS 6400P2	●	●	●		●	●		●	EOLIS 6400T0

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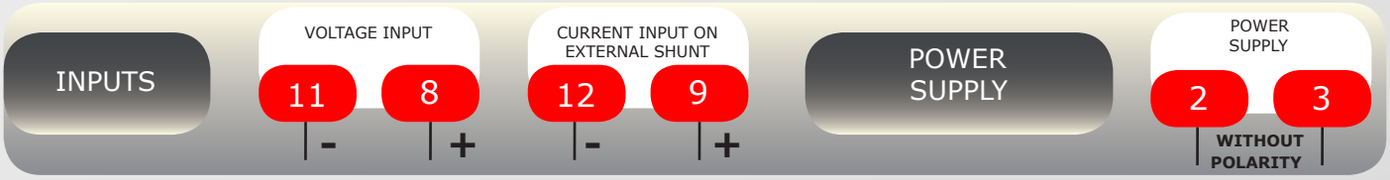
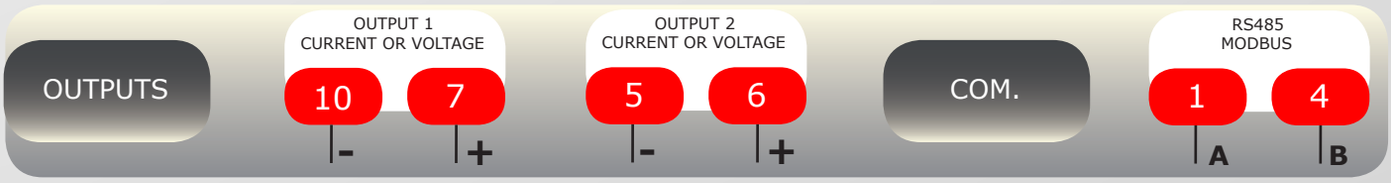
EOLIS 6000 : OPTIONS REFERENCES

OPTIONS	PRODUCT CODE
Varnish EOLIS	EOLIS 6x00Px-T
Power supply 20Vac / 60Vac	EOLIS 6x09Px

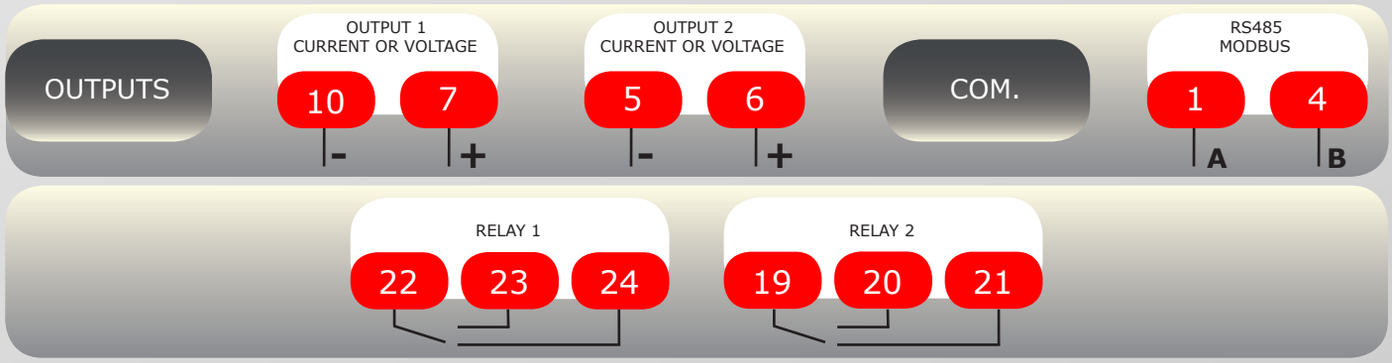
EOLIS 6000 : WIRING



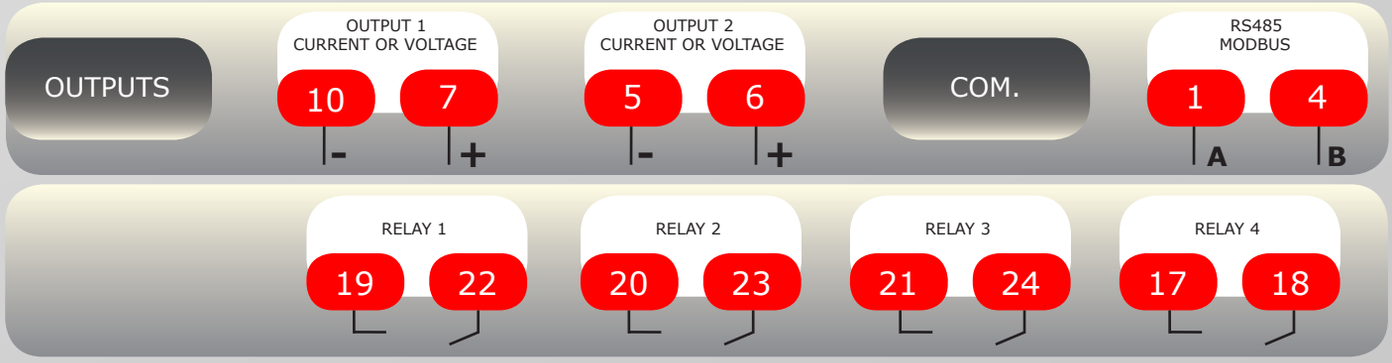
EOLIS **6000P0, 6000T0, 6000P2, 6000T2 OUTPUTS WIRING**



EOLIS **6200P0, 6200T0, 6200P2 OU 6200T2 OUTPUTS WIRING**

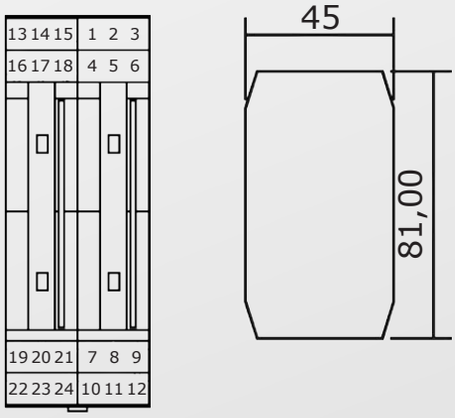


EOLIS **6400P0, 6400T0, 6400P2 OU 6400T2 OUTPUTS WIRING**

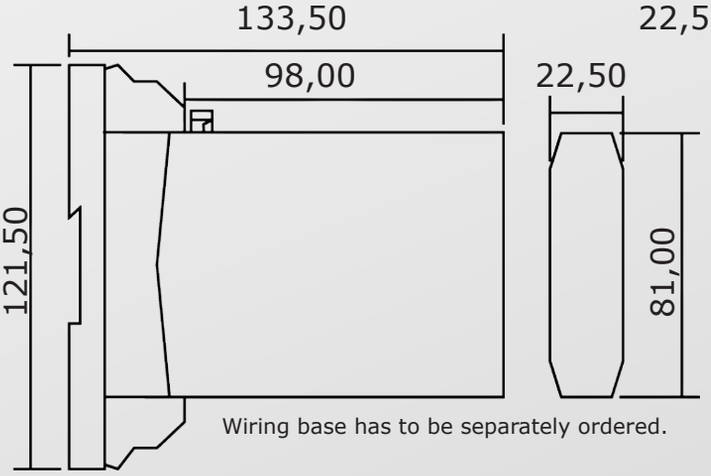


EOLIS 6000 : DIMENSIONS AND TERMINALS

45mm CASE



BASELINE
screw or spring terminals



Wiring base has to be separately ordered.

22,50mm CASE

BASELINE
screw or spring terminals

SHUNTS

JM Concept can provide any type of SHUNT from 1A to 100A EOLIS 6000 current input.

EOLIS 3000P : FACTORY SET UP

Input 1 : 0/1500V
Output 1 : 4/20mA
Display : 0-1500

Input 2 : 0/100mV
Output 2 : 0/100mV
Display : 0-100

Relays (2RT ET 4T)
High Alarm
Threshold : 1000

Communication speed : 9600bauds
Integration time : 10mn

Other settings on request

SK30 - Non contractual datasheet.
Subject to change without notice