

Version 8

XALIS 9000

Universal Indicator





Universal power supply



Sensor power supply



ModBus RTU

- Presentation
- Range
- Dimensions
- Factory Settings
- Inputs - Outputs
- Characteristics
- Options listing
- Functions
- Wiring

Presentation

XALIS 9000 is a digital indicator with two-color display allowing analog and digital transmission of various signals.

Flush-mount housing (IP65 48mm x 96mm x 85) equipped with plug-in connectors and a USB socket on the back.

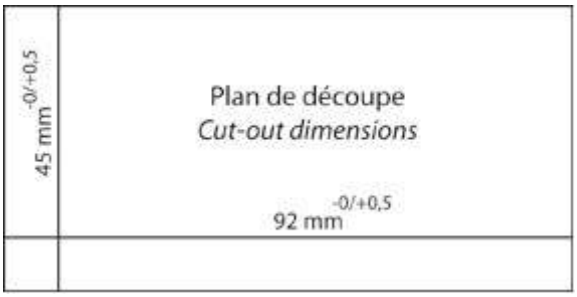
XALIS 9000 is guaranteed for **5 years**

Range

Indicator Reference	**Input** 1 universal input	**Outputs**				**Communication**
		Number of isolated analog		Number of Relay		
		1	2	2	4	RS485 USB
XALIS 9000U0	✓					✓
XALIS 9000U1	✓	✓				✓
XALIS 9200U0	✓			✓		✓
XALIS 9200U1	✓	✓		✓		✓
XALIS 9400U1	✓	✓			✓	✓
XALIS 9400U2	✓		✓		✓	✓



Dimensions



Dimensions : 48mm x 96mm x 85mm

Factory Settings

Input	Output (1&2)	Relays (2 RT or 4T)
4-20mA	4-20mA	Alarm : high
Display : 0.00 -100.0	Display : 0.00 -100.0	Threshold : 50

Communication speed : 9600 bauds, Slave address : n°1

Other settings on demand

Inputs - Outputs

Input Gauges

Current (continuous)	Standard scales : 0-1mA ; 0-10mA ; 0-20mA ; 4-20mA ; ±1mA ; ±10mA ; ±20mA Adjustable scales : From -22mA to 22mA
Voltage (continuous)	Standard scales : 0-100mV ; 0-1V ; 0-5V ; 1-5V ; 0-10V ; 2-10V ; 0-50V ; 0-100V ; 0-250V ; 0-500V ; 0-1000V ; ±100mV ; ±1V ; ±5V ; ±10V ; ±50V ; ±100V ; ±250V ; ±500V ; ±1000V Adjustable scales : From -110mV to 110mV, de -2V to 11V
Variable resistance thermometer	Standard scales : CU50 ; CU53 ; CU100 PT10 ; PT100 ; PT1000 ; Ni100 ; Ni1000 2 or 3 wires Adjustable scales : CU50 ; CU53 ; CU100 PT10 ; PT100 ; PT1000 ; Ni100 ; Ni1000 2 or 3 wires
Resistance 2 wires	Standard scales : 1KΩ - 5KΩ - 10KΩ- 50KΩ
Thermocouple	Standard scales : J, K, R, S, T, E, B, N, W3/D, W5/C, Mo, P Adjustable scales : J, K, R, S, T, E, B, N, W3/D, W5/C, Mo, P Unit : °C or °F Cold-Junction Compensation: internal or external
Potentiometer	Adjustable scales : From 0% to 110%
Special table for NTC PTC	Adjustable scales : 1KΩ, 5KΩ, 10KΩ, 50KΩ Programmable with **IXLOG** software Unit: °C or °F
Sensor Supply	Sensor 2 or 3 wires - Sensor power supply : 24V - 26mA max

Output Gauges

Output 1 & 2 Current	Standard scales : 0-10mA ; 0-20mA ; 4-20mA Adjustable scales : from 0 to 22mA
Output 1 Voltage	Standard scales : 0-10V ; 0-5V ; 1-5V ; 2-10V Adjustable scales : from 0 to 11V
Output 2 Voltage	Standard scales : 0-10V ; 0-5V ; 1-5V ; 2-10V ; ±10V Adjustable scales : from -11 to 11V
Output Relay	2 or 4 Relays 1RT : 2A-250Vac
Communication	Isolated USB in Rear Panel / isolated RS485 Modbus RTU

Characteristics

Display	
Type	Two-color digital and alphanumeric display
Color	Choice of color for the numeric or alphanumeric line
Number of characters	5 in numeric and 9 in alphanumeric
Number of lines	2
Programming keys	4 keys
Input Characteristics	
Current input impedance	5,6Ω
Voltage input impedance	U<10V and thermocouple: >10MΩ U±10V or >10V : 6MΩ
Current input CU50 ; CU53 ; CU100 ; PT10 ; PT100 ; Ni100	Current : <1mA
Current input PT1000 ; Ni1000	Current : <0,8mA
Current input Resistance 2 wires R=200Ω ; R=1kΩ	Current : <1mA
Current input Resistance 2 wires R=10kΩ	Current : <0,2mA
Output characteristics	
Permissible impedance on the current output 1	<1kΩ
Permissible impedance on the current output 2	<600Ω
Permissible impedance on the voltage output 1	>700Ω
Permissible impedance on the voltage output 2	>600Ω
Isolation	
Supply / Input-Output(s)-Relay-RS485-USB	4200Vrms, 50Hz, 1mn
Input / relay / RS485 / USB-output 1	2500Vrms, 50Hz, 1mn
Output 2 / Input-relay-RS485-USB-output 1	1500Vrms, 50Hz, 1mn
USB / Output 1	Without

Auxiliary source	
Voltage supply	22-240Vdc or 90-230Vac 50/60Hz
General characteristics	
Precision class	0,1
Input analog / digital conversion	24 bits
Output analog / digital conversion	16 bits
Response time	Process input, thermocouple, 2 wires resistor : <150ms RTD input, potentiometer : <350ms
Thermal drift	<25ppm
Residual ripple on current output	<20µA
Residual ripple on voltage output	<10mV
Maximum of consumption	<11,3VA
Operating temperature	-10°C … +60°C
Storage temperature	-25°C … +80°C
Protection factor	IP65 (front Panel) Self-extinguishing black ABS enclosure V0

Options listing

Option	**Device code**
Tropicalization	XALIS 9XXXUX-T
Auxiliary source 20-60Vac	XALIS 9XX9UX

Functions

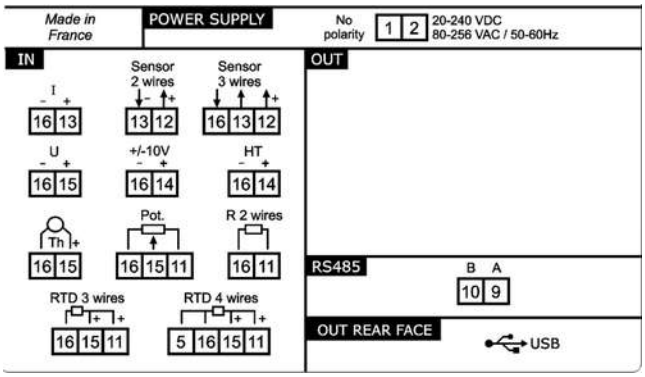
Display functions	
Display	Two-colour digital and alphanumeric display. Possibility of switching off each of the display lines independently
Color	Choice of color for the numeric or alphanumeric line
Color change	Possibility of automatic color change when a defined threshold is reached
Programming	Programming via keys on the front panel, or via USB with **IXLOG** software
Unit	Choice from a list of units
Memory Mini / Maxi	Storage of the maximum and minimum value of the measurement on each input channel
Customizing the display	Resolution, Comma, Display off
Input	
Inputs display	The display allows to visualize the input in physical value and in programmed value
Adjustable input scale	Allows to zoom on the input either in manual or automatic mode
Offset	Manual adjustment of the input offset
Taring	Taring function at process input (by validation)
Cut Off	Threshold below which the input is considered as null

Smart functions	
Sensor signal loss	Translates the sensor signal loss on : • the display, • each of the analog outputs, • the digital output, • the status of the relays
Filtering	Integration of the measurement over the defined time
Absolute value	The output(s) are a function of the absolute value of a bidirectional input
Pilot function/simulation	The pilot function makes it possible to act on the display value influencing the output(s), independently of the input The Pilot function is activated either by the digital link (RS485 or USB) or by keys on the front panel
Segmentation in 99 points	Linearization in 99 points (free choice for each point), allows to create an output function by segmentation of the signal of each input channel
Segmentation PTC-NTC resistive	Allows to create the PTC or NTC curve by segmentation of the input signal (programmable only by the **IXLOG** software)
CSF	Cold junction compensation by 16 bit digital sensor
Outputs	
Visualization of the outputs	The display allows to visualize the outputs, in physical value and percentage; as well as the status of the relays
Outputs assignment	Assignment of outputs to inputs or to the control function, independently for each channel
Adjustable output scale	Allows you to zoom in on the outputs
Outputs limitation	Possibility to limit the value of the outputs - High limit and Low limit
Relays assignment	Assignment of relays to inputs or to the control function, independently for each channel
Thresholds	Single or band mode, with positive or negative safety Adjustment of thresholds, hysteresis and time delay (independent on rise or fall) Direct access to the thresholds
Acknowledgement of alarms	Independently for each alarm
Storage of alarms and/or relay status	Independently for each alarm

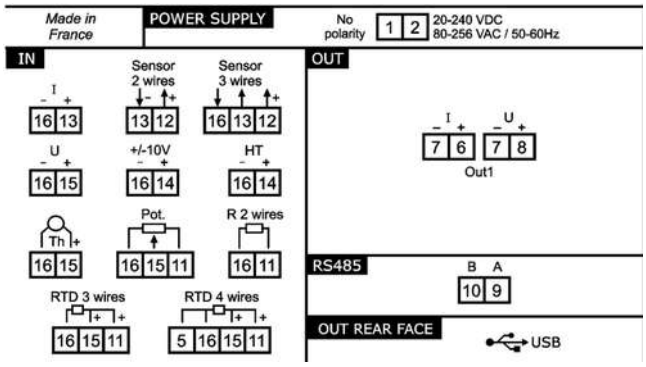
Links and communication	
RS485 MODBUS RTU	RS485 MODBUS RTU bidirectional digital link allowing to : • recover the measurements and transmit them in digital format • configure and control the device
Digital bus	Access to the digital bus via the USB socket
USB rear	USB rear panel to connect directly to the USB port of a PC for programming via the **IXLOG** software
Mapping of Modbus addresses	Mapping of Modbus addresses, allowing you to choose your own variable address

Wiring

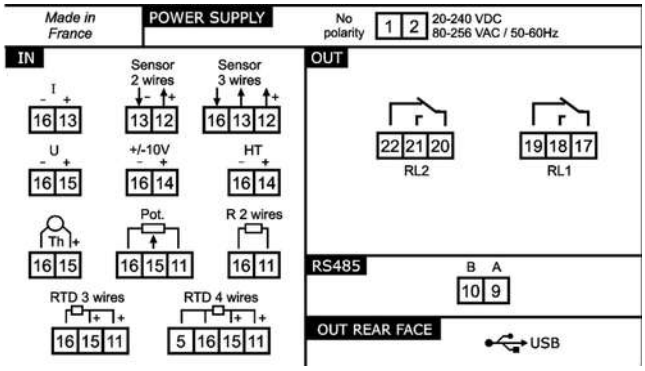
XALIS 9000U0



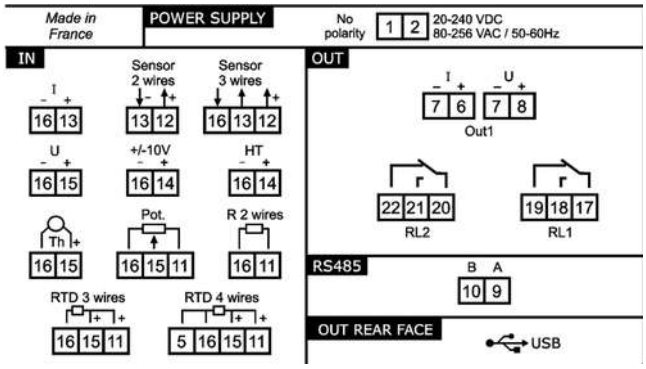
XALIS 9000U1



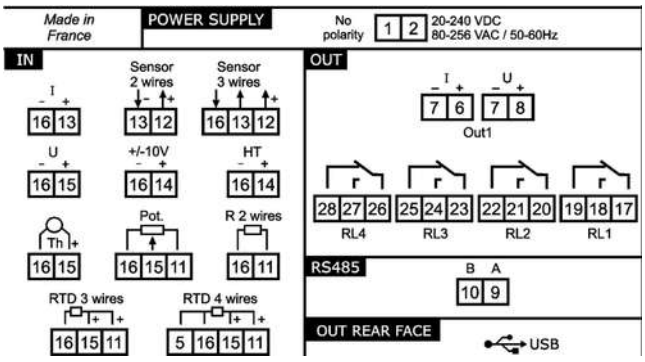
XALIS 9200U0



XALIS 9200U1



XALIS 9400U1



XALIS 9400U2

