C100 I/O INTERFACE

C100 interface is an acquisition module of analog and digital data compatible with RTU Modbus systems.
Thanks to different working mode (point to point, point to point with monitor and Modbus point to multipoint) C100 interface can be used in many applications of data acquisition and remote control.

WIRELESS AND WIRED CONNECTION
C100 interfaces can be connected by RS485 serial cable or wireless by means of all ERE radiomodems.

INPUT AND OUTPUT
C100 interface has 4 optoisolated inputs, 4 digital outputs with relay, 2 analog 0-20 mA inputs protected by a fuse and 2 analog 0-20 mA outputs optoisolated.

OPERATING MODE
C100 interface can operate in 3 different ways:
• point to point: inputs and outputs of 2 interfaces are connected like in a mirror (input of one interface is output of the other and viceversa)
• point to multipoint: by means of protocol Modbus RTU it is possible to read and control up to 29 remote units
• monitor: in point to point mode the addition of a third interface makes available as output the status of all outputs of connected interfaces (inputs are converted in outputs). This third unit is used for monitoring combined with a synoptic panel.

EXPANDABLE
C100 interface can be connected with other 3 interfaces, in this way giving up to 8 analog inputs and output as well as 16 digital inputs and outputs.

BUILT-IN POWER SUPPLY FOR THE LOOP
C100 interface can directly supply power to the analog sensors connected to relevant inputs; 15 VDC voltage is granted even if the system is powered with lower voltage.

MANUFACTURING
C100 interface is assembled with SMT technology using industrial components.
It is available in different enclosures for indoor or outdoor applications.

ERE
WIRELESS

C100 I/O INTERFACE

NOMENCLATURE & ACCESSORIES   C100 - 9 0 3 E 00
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a   Enclosure
   3   Aluminum with polycarbonate cover
   4   Aluminum IP65
   7   Engineering plastics

FEATURES

GENERAL

Supply voltage	9-30VDC
Consumption	400 mA (single interface with active I/O)

Max voltage allowed digital input	5-24 VDC/VAC
Digital input impedance	2 kΩ

Analog input current	2-20mA
Supply voltage available for analog input	16,1±0.3VDC (without load)
Analog input impedance	83±6 Ω

Digital output	relasy NO
	rating max DC = 3A@30VDC - 0.35A@110VDC - 0.2A@220VDC
	rating max AC = 3A@220VAC@cosφ=1 - 1A@220VAC@cosφ<1

Analog output current	2-20mA (external 12-24VDC supply voltge required)

INTERFACE	RS485
Data rate	9600 bps
Data format	8,N,1

Operating temperature	-30˚C +70˚C
Overall dimension	165x105x55 mm
Weight	450 gr

ERE WIRELESS