

# RTU B300

**BRE** ELETTRONICA s.r.l.  
Telemetry Systems

INGEGNERIE TOSCANE

Multiprotocol advanced RTU (Remote Terminal Unit) with local processing capability, compact modular construction, provided for installation on DIN rail.



The B300 RTU is a modular system composed of a CPU and of several Input/Output modules.

The CPU module is equipped with some Input/Output lines and can be used in a standalone configuration, without additional modules, when the on board I/O lines are sufficient for the specific application.

## ■ CPU module

- Calculation power ensured by the ARM microprocessor.
- 2 GB non-volatile memory on SD card.
- On board Input/Output lines: 12 Digital Input, 4 Analog Input, 2 Digital Output.
- Communication ports: Ethernet port, USB port, n. 2 RS232 serial port, RS485 serial port, Bluetooth functionality.
- CAN port to connect expansion modules that can be local or distributed on the plant under control.
- Communication protocols: IEC 60870-5-101, IEC 60870-5-104, MODBUS TCP, MODBUS RTU, ELEKTRON SIGMA, CAN Open.
- GSM/GPRS module on board with external antenna connector.

- Bluetooth on board.
- PLC function to implement local automations, programmable with a powerful integrated development environment which supports all the five programming languages required by the IEC 61131-3 standard.
- DI-16 module
  - 16 opto-isolated input channels
  - LED for input channels status and CAN bus connection status
- AI-08 module
  - 8 analog input channels
  - LED for CAN bus connection status
- Digital Output DO-08 module
  - 8 output channels on relays contacts
  - LED for output channels status and CAN bus connection status

**IEC104 Setup**

**General parameters**

☒ Enable

2404 Port 2405 Redundant port

1 ASDU address

12 k - Trasmitted unacknowledged frames

8 w - Acknowledge received I frames

15 t1(s) - Timeout sending or testing APDUS

10 t2(s) - Timeout for ack in case of no data

30 t3(s) - Idle timeout for sending test frames

☐ Actterm

**Event queue size**

100 Single point

100 Normalized measure

100 Scaled measure

100 Floating measure

0 Integrated total

Note:  $t_2 < t_1$ ,  $t_1 < t_3$ ,  $k < 15$ ,  $w < 2/3$  of  $k$

Save Home

COM\_1 Console port (115200 N81)

1 Time zone

250 Short pulse(ms)

1000 Long pulse(ms)

Save Home

### Main applications:

- Advanced RTU for telecontrol systems, with local automation capability
- Obsolete RTU replacement
- Process control Gateway
- PLC module

