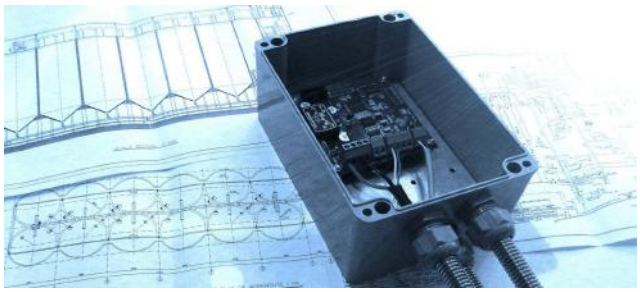
ERG-T9
Remote Terminal Unit

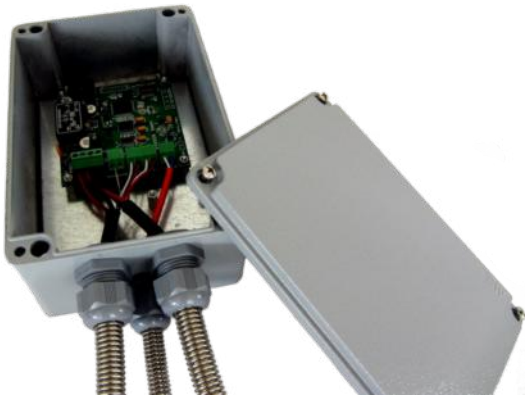
ERGSON GmbH

Generalities

ERG T9 is a remote terminal unit operating as an interface converter to 1wire sensors (two channels), analogue and digital signals. It can be connected to standard local area network systems with modbusRTU and TCP/IP Ethernet.

Full or half duplex operation is possible. I2C, SPI, rs232, rs485, USB, Ethernet and wireless interfaces makes it an unique equipment ideal as a signal converter between site sensors and PC SCADA systems.



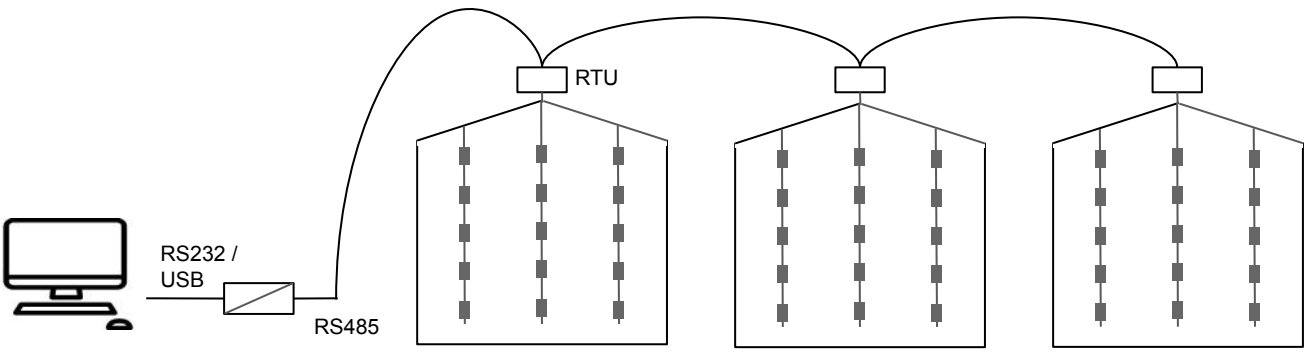


Main Features

- For use with 1wire digital temperature sensors
- Remote Terminal Unit works with Standard RS485 ModbusRTU protocol.
- Industrial power supply 24VDC
- Easy integration to PC or handheld terminals and readout of all measured data through standard interface outputs serial bus and standard communication protocols
- Communication with master station for SCADA applications
- Communication with Intelligent Electronic Devices (IED)
- Easy maintenance on site through test led signs
- Suitable for operating in explosive areas zone 21 and 22, Eex ib IIc T6/T4
- Easy integration to other application fields through standard communication protocols
- Fully isolated Interfaces in order to avoid earth loops
- Free programmable and easy update of latest firmware

Applications

- Grain storage temperature management systems
- Proactive protection and maintenance by SCADA monitoring
- Integration into inventory management and input and output controls through weighing systems
- Grain silo level and strength of material information
- Easy upgrading of old installations to modern new digital technologies



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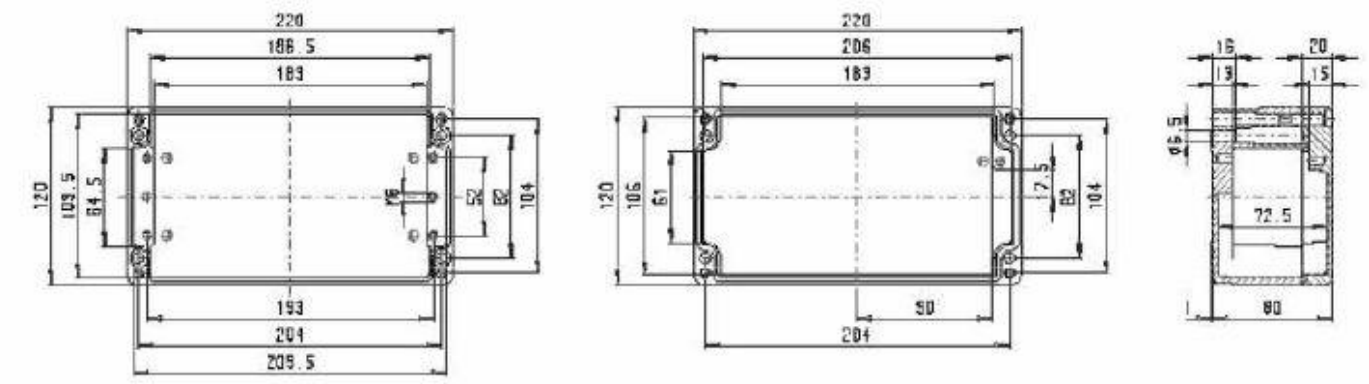
Technical Data

- Supply Voltage: 10 … 30 V DC, internally isolated supply to sensors and serial interfaces.
- Number of Channels of 1-wire network : 2 (1wire sensor inputs)
- Number of 1-wire sensors per channel : 60 pieces
- Communication Interfaces: RS 485 (Modbus RTU Protocol)
  I2C
  SPI
  Ethernet (option)
  Wireless Communication (option)
- Number of I/O: 8 Digital Inputs (option)
  8 Digital Outputs (option)
- On Board (ISP, JTAG) Programming
- Isolated operation: Separation of network channels 3000V
- Diagnostic LEDs on board: power, serial comm. active, 1wire activity.
- Connectivity: Fieldbus Systems, Distributed Control Systems
  Plant host computers, WAN / LAN , Ethernet
- Housing : Die cast aluminum
  Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 94/9/EC
  II 2 GD Ex e ia IIC T6 tD A21 T80°C IP66
  Stainless Steel Lid Screws
- Temperature range for operation : -10 … +65°C according to DIN 40040
- Temperature range for storage and transport: -30 … +85
- Permissible relative humidity: 5 … 95%, non-condensing
- EMC resistance: according to EN50081-1 / EN50082-2

Dimensions of Protection Box



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Industrial Automation