

TETRA Ethernet Router



Reliable wireless equipment management (Monitoring & Control) is essential for process operators to detect any equipment conditions and failures in order to perform corrective measures. Typical problems facing process operators are often the difficult access to the sensors, cable breakage, cable theft and the time to repair the cable.

ESS has designed a Wireless Management System called the ESS-TETRA-RTU (Remote Terminal Unit) that will allow operators to receive instant notification of any sensor/equipment events. Control of maintenance personnel can automatically be informed about the problem and plan effectively for the corrective task.



Various remote analog and digital sensors can be used with a choice of different communication technologies. The ESS TETRA-RTU allows for exceptional flexibility and modularity with the ability to provide 100% redundancy for critical management.

Connectivity to any OPC (Ole Processing Control) based SCADA is easy to implement.

The ESS-RTU-EXT will be connected to an external TETRA radios. Various RTU configurations are possible and additional extender interfaces can be connected to the ESS-RTU, allowing for flexible expandability.

ESS TETRA-RTU features:

- Ethernet port 10/100 Mbps
- 2 x RS232 ports, 1 x RS485 port, 1 x diagnostic RS232 port
- Industrial microprocessor, operating system Linux
- Compact DIN rail design with plug-in IO connectors
- Ethernet PPP router functionality (*Certified by Hytera Mobilfunk GmbH*)
- Low data bandwidth utilization due to optimized application layer protocol
- Logic Control via user friendly interface (optional)
- On board SD card enabling the user download of configuration files
- 2 USB ports
- DC Voltage inputs from 8 V to 48 VDC, 4 Watt
- Operational Temperature -20° to +60°C
- Basic version in addition:
 - 4 Digital optically isolated inputs, 4 Digital open collector Outputs
- Full version in addition:
 - 20 Digital optically isolated inputs, 8 Digital open collector Outputs
 - 4 analogue inputs 0/4 – 20 mA, instrumentation 12-bit A/D
 - Efficient LED display of IO's including analog values

For more information contact your local dealer

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Date: 15 July 2018
Issue: 1.7

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