Designed to last

TETRA Remote Telemetry Unit

Part no.: T-RTU-485-8I

TETRA Remote Telemetry Unit specially designed to operate in TETRA networks.

T-RTU is built to work in a harsh environment with a limited throughput of data channels.

T-RTU Connects by I/O to external sensors and dry contacts. It is configured to send TETRA SDS in hex format to Data Base Applications and can be remote manageable.

Inputs run high or low.

Remote installations that used to be checked manually can be monitored automatically through the TETRA Network. All data needed from mobile and fixed installations now collected in a small hex SDS and sent to the database to be reported further.

Smaller data - bigger potential. Only 5 bytes per sensor in hex SDS gives an advantage to use a single TETRA base station to control hundreds of Remote Telemetry Units.

Small IP66 enclosure of Remote Telemetry Unit allows to install it in a truck or special vehicle to control fuel flow and level together with temperature.

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All inputs are secured by optocouplers.

Power from the vehicle has a double transformation to secure either unintentional or intentional damage. T-RTU requests GPS data from attached TETRA radio and prepares a telemetry SDS with real time stamps. When a connection to a base station is not available or a vehicle is out of coverage T-RTU collects and stores up to 3000 data messages in power-independent memory. When connection is recovered T-RTU sends stored SDS to a remote database with delivery control.

"Pulse input" for the fuel flow control designed to count for 10 years of uninterruptable work.

T-RTU has a single military style connector which can be sealed.

Standard interfaces:

A Standard Version of T-RTU has:

- a pulse input for fuel flow control;

- up to 8 inputs run high or low;

- RS485 port to control up to 254 digital sensors;

- PEI / RS232 for the configuration;

Options:

- More than 8 configurable Inputs/Outputs;

- Power supply' voltage by demand (9, 24, 48 VDC);

- Analog Inputs/Outputs;

- Remote Configuration by SDS;

- USB host;

- CAN bus;

- IP67 housing;

Specification:

Physical data	
Dimensions, mm	W100 x H150 x D45 (including connector)
Weight, kg	0,4
Ingress Protection	IP66 (IEC 529)
Mounting	Horizontal / Vertical Surface
Operational temperature	-40 … +60 Degrees Celsius
Storage temperature	-40 … +85 Degrees Celsius
Inputs/Outputs	
Inputs signals (Low=0V, High=9-16 VDC)	Up to 8 (Standard)
Digital Outputs	Option
Analog input (0-5V)	Option
Analog output (0-5V)	Option
Digital input	RS485
Fuel flow control	Pulse count input
Configuration	
Standard interface	RS232
Remote SDS configuration	Optional
Power source	
Standard	12VDC
Optional	9, 24, 48 VDC
Message type	
SDS by SEPURA radio	Yes (Hexadecimal)
SDS by Motorola / Hytera radio	Yes (Hexadecimal)
SDS by DAMM TetraFlex	Yes (Hexadecimal)

Applications:

- Vehicle fuel control
- Remote Alarm control
- Security and Surveillance
- SCADA applications

Why TETRA?

That's easy. Only TETRA (ETSI) as a standard provides secured Voice and Data for professional needs. TETRA is the best solution for the telemetry applications with voice supported.

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