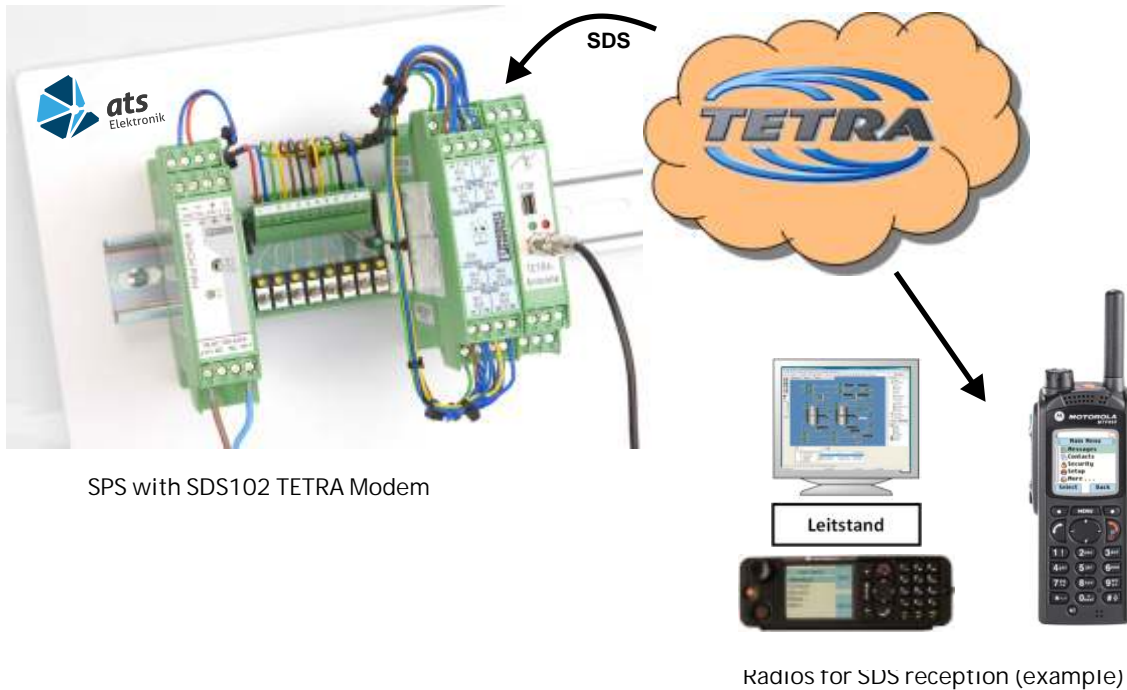


SDS102

Control by Short Data Service
within the TETRA Network



SPS with SDS102 TETRA Modem

Radios for SDS reception (example)

Application

With the ETSI Standard TETRA a versatile radio system is available, improving existing applications or offering innovative applications. Automation engineering control systems frequently have to be interconnected at good distance of several kilometers. By means of TETRA these systems can be connected fast and simply in order to exchange brief data packages (SDS-Short Data Service). The SDS service admits to transmit data up to a quantity of 140 byte in one package.

In order that e.g. a SPS/PLC must not handle with data preparation, ATS Elektronik GmbH has developed a product adapted to these applications. Via the SDS102 data may be sent in few commands per the fast air transmission path.

The RS232 interface of the SDS102 is for example connected with the SPS/PLC. The SPS/PLC sends a simple ASCII packet (e.g. „{2990001;here the text is displayed }r\n“) and yet the packet arrives at the destination station. Data packets received arrive in a similarly simple ASCII format at the SPS/PLC.

The dispatcher will be informed in case the radio system is not available or if the data package had not been duly delivered. This mechanism increases the system security.

Field of Application

- Pumping station monitoring and control system for supply/disposal contractors
- Fill level and equipment condition monitoring

Technical Data and Functions

- RS232 interface (Rx/D, Tx/D, RTS, CTS)
- Dimensions: 18 x 99 x 123 mm (LxBxH)
- Electric power supply: 12-24 V DC
- Current consumption: max. power input 12 W
- Ambient temperature: -20°C bis 60°C non-condensing
- DIN rail assembly according to DIN EN 50022.



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*All technical data and functions serve as orientation
and may be modified without previous notice.*