

## Smallest telemetry station with very low power consumption

Suitable for remote monitoring and control of small water objects and in places without power supply



### Main features

- Minimum power consumption
- Long time battery powered operation
- Possibility of solar powering
- High IP protection (IP 67)
- Simple and fast installation
- Remote configuration
- Low investment and operating costs
- Compatibility with SCX control system

### Characteristics

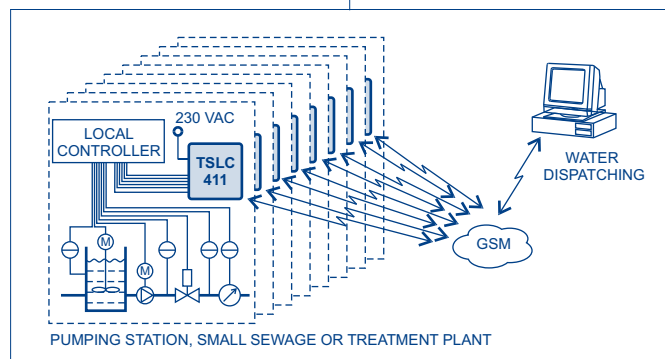
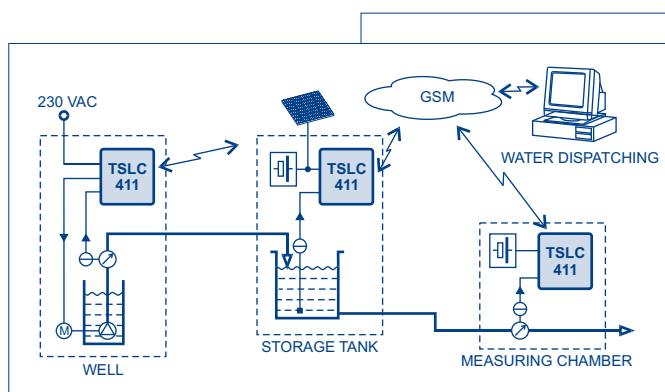
**TSLC 422** is a small telemetry station for the **most simple applications of monitoring and controlling** of technology objects for example water sources, storage tanks, float chambers and sewage objects in water and sewage networks.

It is possible to connect different types of sensors as level switches, door contacts or count pulses from flow meters to binary inputs.

The analog input can be connected for example to a pressure or temperature sensor with current or voltage signal.

With output signal it is possible to control equipments as pumps, valves or to provide remote start or stop of complicated process which is then controlled by a local controller.

Thanks to very low power consumption the station is especially suitable for operation in places without power supply. It may be powered by batteries, accumulators and / or solar panels. Using adaptor it can be also mains - operated.



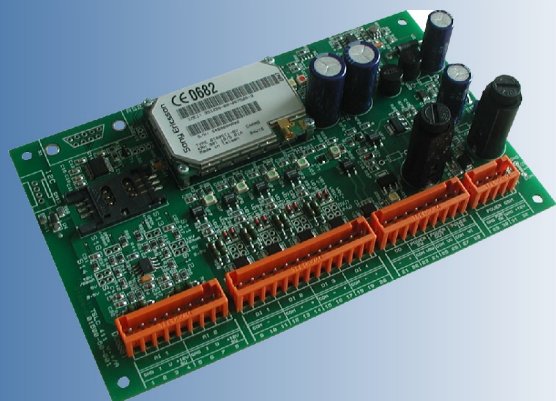
*for remote monitoring and controlling of small water objects*

## Functional description

TSLC 422 continuously measures input signals and evaluates limit states and alarms. The alarm is generated also when external power supply fails or in case of very low power voltage and if the accumulator is critically discharged, which is followed by station switch-off. The values signifying limit states and alarms are stored in station internal memory and they are easy user-configurable. When alarm or limit state is registered the station sends alarm message. Current values of input signals can be sent to the upper system on request.

Communication with upper system is via GSM SMS. This provides besides data and alarms transfer also remote control of output signal and configuration of the station. It's not necessary to program the station because pre-installed firmware assures all above mentioned functions. It is possible to set the input parameters, limit states and alarm conditions as well as communication parameters including phone numbers. All the preset values and information are easily user-configurable at any time.

Telemetry station TSLC 422 was developed as a part of SCX SCADA system, using FED (Front-End-Driver) communication interface. Using another public communication protocol the station can be connected to any other control system.



## Design and accessories

Telemetry station includes control unit with built-in GSM-SMS modem, power supply modul and internal maintenance - free lead accumulator. The power supply isolator, forming a part of the telemetry station, helps to decrease power consumption. Electronics and binary inputs can be supplied from external regulated power supply or from accumulator. In this case the internal power supply module will not be used. All parts are installed in a plastic box with IP67 protection. The station can be provided with external lead accumulator or other accessories according to special customer requirements.

## Technical data

Power supply	230 VAC / 20 mA or from 14 to 18 VDC
External accumulator	respecting customer requirements
Accumulator charging	50 mA
Electronics power supply	from 12 to 18 VDC
Binary inputs power supply	from 12 to 28 VDC
Max. supply current when transmitting data	50 mA
Sleeping mode power supply at 12 VDC	< 300 uA (inputs and modem not powered)
Operation time (with 12V/7Ah battery)	minimum 6 months with data transfer once a day
Binary inputs	4x DI or 2 x CI (with 16 - bit register); max. frequency of input signal is 50 Hz; input type: potential-free contact or SSR relay 12 V / 5mA
Binary outputs	1x DO; SSR relay 30 V / 100 mA
Analog input	1x AI selectable 0 / 4 to 20 mA, 0 to 2,5 / 5 / 10 VDC
Dimensions	180 x 180 x 100 mm (h x w x d)
IP Protection	IP 67
Storage temperature	-25°C to 50°C (electronic parts), -10°C to 50°C (power supply module)
Operation temperature	-20°C to 50°C (electronic parts), -10°C to 50°C (power supply module)