

## DATA LOGGER AND TRANSMITTER «TM-2020»

for transmitting data acquired by gas meters of industrial consumers  
over GSM channel

### Purpose

- Remote data acquisition from gas meters.
- Gas consumption monitoring for industrial consumers.
- Gas supply control.
- Organizing unified database and data display interface of metering equipment from various manufacturers.

### Exterior look



### Content of the kit

- controller;
- GSM/GPRS/3G module;
- magnet based GSM antenna;
- rechargeable battery 12V/1,2 A/h.;
- spark protection shields (for mounting in explosion danger areas);
- DC/DC converter module for feeding the meter;
- automatic power fuse 6A, protection box;
- mounting plate 500x400x150 (option IP31 or IP54);
- power cable;
- interface cable;
- mounting kit.

Main features	
Data communication channel	GSM/GPRS/3G
Data communication channel, optional	NB-IoT, Ethernet
Connection of electronic correctors of gas meters	+
Connection of electronic thermal energy meters	+
Connection of electronic water meters	+
Connection of electronic electricity meters	+
Support for non-standard exchange protocols	+
Cloud-based solution for higher level software	+
Hardware features	
Number of RS232 interface inputs	3
Number of RS485 interface inputs	2
Number of CAN interfaces	1
Number of digital inputs DI	4
Number of pulse counter channels	1
Connection to extension modules	+
Supplying power for measuring equipment	+
Providing «spark-free circuit» connection	+
Software features	
Remote controller configuration via communication channel	+
Full remote firmware upgrade via communication channel	+
Duplicate data logging in internal non-volatile controller memory	+
Data archiving and compressed transmission in packet mode	+
Providing tunneled channel to measuring equipment interface	+
Monitoring communication channel with automatic reboot	+
Analysis of technological parameters based on acquired data and sending alarm messages in event of threshold level crossing	+
Support for standard OPC ( Open Platform Communications)	+
Support for standard МЭК 61870-5-104	+
Running environment	
Temperature range, without battery charging	-30...+55°C
AC power voltage	220V ( ± 10%)
Autonomous operation from battery, not less , hours	4
Environment conditions protection level, up to	IP54
Dimensions	500x400x150