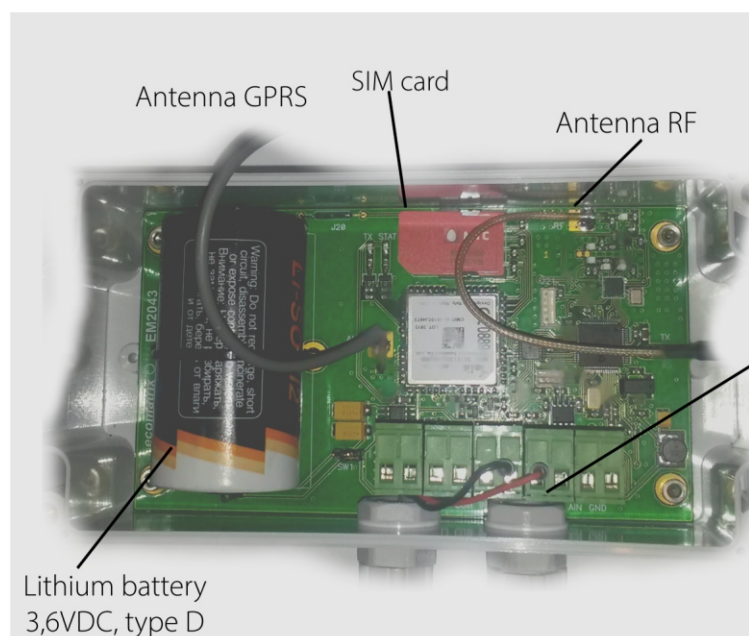


Pulse & Pressure RF/GPRS unit (EM2043)

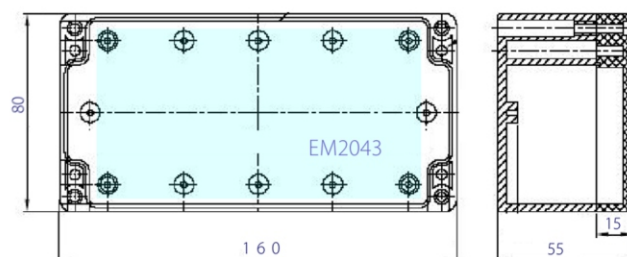
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External unit is used for transfer data by radio and /or by cellular communication (GPRS) from meters of water, electricity and gas with pulse outputs and from the connected pressure sensor. The unit has 4 built-in pulse inputs and 1 analog input from pressure sensor. The unit has the lithium battery for more then 5 years of operation (including power of the connected pressure sensor) . The user settings are set by radio with the RF Terminal and the special program. Each input has its own reading/programming parameters.

Parameters	Description
Description	Pulse & Pressure RF/GPRS unit EM2043
Input Connection Types	4 programmable independent inputs from meters with pulse outputs (dry contact, open collector), 1 analog input from pressure sensor
Inputs Specification	Minimum pulse width - 20 mSec. Maximum cable from meters length - 10 meters.
Box Size	160x80x55mm
Unit Weight	550 grams
Power Supply	1 Lithium batteries, "D" size, 19 A*h
Operational Life	Depends on the time intervals between transmissions. For example: calculated for 4 GPRS-transmit per day (transmit hourly values for every meters input from trends), every 300 sec RF-transmit and every 15 minutes pressure measuring . Operational Life - 6,27 years
Settings time intervals between:	For RF transmit - 10 sec...18 hours. For GPRS transmit - 1 min...45 days. For pressure measuring - 1 min...45 days
Maximum number of records in archive (internal data logger)	5 months of hourly values of each input, pressure samples - every 15 min
RF frequencies (ranges)	FSK 433/865/868/902 MHz - is defined of each country regulations
RF Transmit Bitrate	10.0 kbps
GPRS frequencies	UMDS GPRS 800/900/1700/1800 MHz
Configuration Storage	Non-volatile memory
Environmental	IP-65
Operating Temperatures	-20° C to +60° C
Humidity	Max. 90%

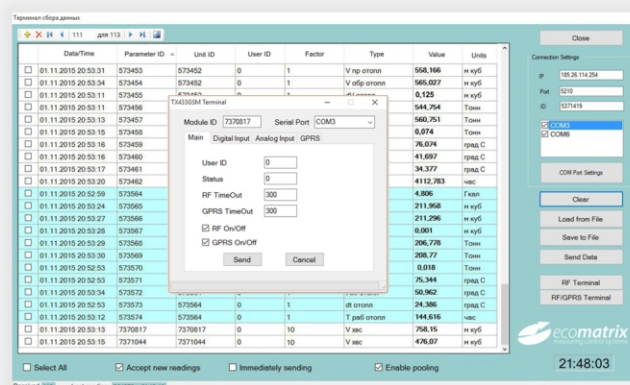


Main dimensions, mm



The configuration of the main parameters

To configure various parameters of the unit using the system WalkBy - RF Terminal EM3011, tablet pc and special software "RF/GPRS Terminal"



Signals of connection terminals

GND	Ground	Pressure sensor connection (with supply 3,6 VDC in pulse mode)	
AIN	Ainput		
AIN+	+3,6 VDC		
IN1	Input 1	Input signals from the meters with pulse output	
COM	Common		
IN2	Input 2		
COM	Common		
IN3	Input 3		
COM	Common		
IN4	Input 4		