

Technical Data



	Inputs	Phone input compatible with DTMF standard	Transmission	Status LEDs (functions)
LX10	8 (NO/NC) + 1 SAB (NO/NC)	NO	GPRS, SMS	2 LEDs (GSM signal level, device state)
LX20	4 (NO/NC) + 1 SAB (NO/NC)	YES	GPRS, SMS, PSTN	4 LEDs (GSM signal level, device state, DTMF communication)

LX parameters		
Outputs		2 (OC, max. load 100mA)
Output functions (ways of control)		- unavailable GSM signal - from server or through SMS - incoming CLIP - in reaction on inputs
Serial interface		RS232 / RS485 (lines: RxD, TxD, RTS, CTS) transmission speed up to 115200bps
Alarm events buffer size		1000
Quantity of system events stored in history		5000
GPRS/SMS transmission security		AES encryption
Configuration		Remote: GPRS, SMS, CSD Local: PC through RS232 (required cable: LX-PROG)
Remote firmware update		YES
Supported modems		- Siemens MC55, MC55i, MC56 - Wavcom Q55 - Simcom SIM300C, SIM340C
Power supply parameters - PCB (without casing)	Voltage supply	13,8V _{DC} (acceptable: 12-14V _{DC})
	Power consumption (average / max)	90mA/500mA@13,8V _{DC} (for LX10) 120mA/550mA@13,8V _{DC} (for LX20)
Power supply parameters - PCB in metal casing	Voltage supply	230V _{AC} (acceptable: 190-250V _{AC})
	Power consumption (average / max)	3W/20W@230V _{AC}
Charging module functions (in version PCB in metal casing)		- fast battery charging mode - protection against excessive discharge - protection against reverse battery connection - AC failure signalization - low battery/no battery signalization - protection against short circuit battery output - polymer fuse
Backup battery connection		YES, (in version: PCB in metal casing), lead-acid 12V
Battery charging current		PCB in metal casing: max. 200mA or max. 1A
Threshold of signaling low AC voltage (at secondary / at primary)		13,5V _{AC} / 160V _{AC} (in version: PCB in metal casing)
Threshold of signaling low battery voltage		11V _{DC} (in version: PCB in metal casing)
Cut-off battery voltage level		9,5V _{DC} (in version: PCB in metal casing)
Dimensions		PCB: 102 x 73 x 35mm PCB in metal casing: 255 x 255 x 90mm

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➤ **REAL TIME GPRS TRANSMITTER**

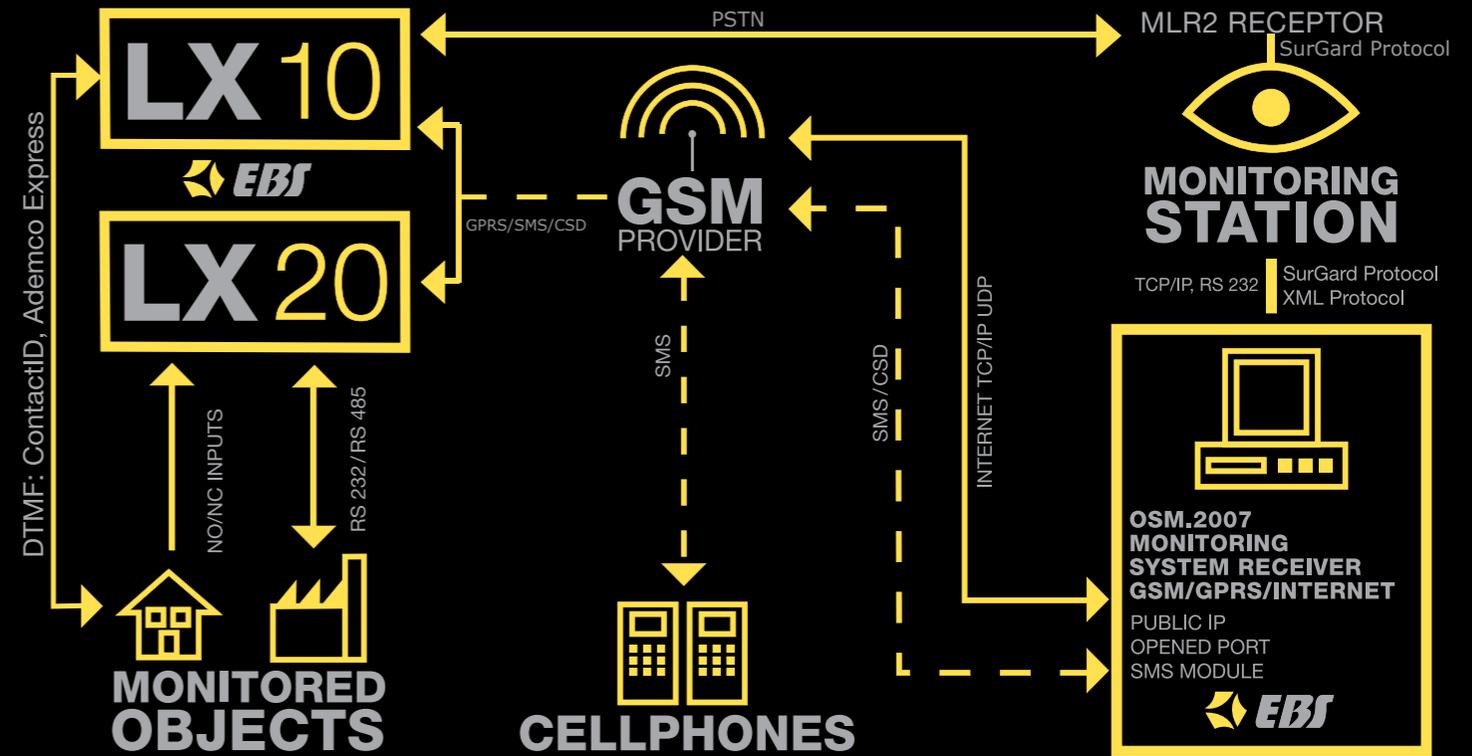


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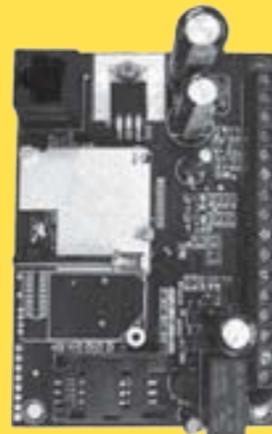
➤ **LX transmitters are modern, microprocessor devices used for the real time packet data transfer through GSM networks via GPRS and SMS channels.**

➤ **LX transmitters are used mainly as the transfer module from security systems. Devices co-operate with all of the most popular alarm systems. Usage of the packet data transfer allows to reduce the alarm system functioning costs.**

- The possibility of LX application is much broader. They can be applied everywhere where there exists a necessity to collect information and send them over distance in real time. Thanks to the intuitive and flexible configuration they may be applied in systems with specific requirements ex. energy consumption measurement systems, vending machines control systems, meteorological station, elevator systems and many others.
- LX transmitters are offered independently or in sets with metal casing, AC adapter and accumulator. In addition we also offer OSM.2007 Monitoring System Receiver – a program, which enables to receive data sent by transmitters over GPRS and SMS channels.



- » **Remote configuration and firmware upgrade**
comfortable servicing and time savings
- » **Encryption of transmitted data by AES standard**
full data transfer safety
- » **Telephone line simulation and DTMF receiving (ContactID, Ademco Express)**
cooperation with alarm control panels equipped with a dialer
- » **Sending of text messages of any desired content to the 5 defined cellphone numbers**
immediate signification of the alarm situation occurrence
- » **System event history**
evidence up to 5000 events enabling to diagnose of possible problems
- » **Device status monitor**
diagnostic mode for the installer
- » **Authorization for configuration and steering text messages**
protection against unauthorized device access



- » **GSM/GPRS connection control**
automatic retrieving of the connection with the monitoring station
- » **Sent text messages quantity control, incoming messages retransmission**
supervision over transmission costs
- » **Embedded row interface RS232/RS485**
co-operation with industrial devices
- » **Steering via CLIP**
costless output connection
- » **Reserve server servicing**
transmission protection in case of a server damage
- » **Modem choice between three leading manufacturers**
adapting the device to the individual preferences

