



Applications

- simple meteorological monitoring
- pollution monitoring
- environmental protection
- industrial waste management
- flood early warning
- research, education
- flood early warning system

MiniLog - simple low power datalogger

MiniLog datalogger is based on combination of latest technology - ultralow power microcontroller with latest LTE global coverage modem with real time multitasking operating system. This is giving flexible and reliable continuous operation.

There are 3 versions; AD including one analog and one digital input, 232 version with one RS232 input and 485 version for RS485 sensors.

AD version is designed for simple tasks - with one temperature probe and one rain gauge, for example. Or one pair of wind speed and direction sensors.

232 and 485 versions are designed to communicate with intelligent sensors. Processing of data includes basic statistics - average, minimum, maximum and stdev. User defined polynomes are used for calculation to engineering units.

For future extension it is prepared EWS (Early Warning System), which will send SMS messages to user predefined numbers and/or increase measuring

frequency of inputs.

As a power source are used 2 pieces of LiION rechargeable batteries. It's capacity provides months of autonomous operation. For the future, small solar panel will be included on the face of the device. This way, full autonomous operation will be achieved.

Remote data transfer is supported by software via email or FTP using integrated LTE modem with worldwide coverage.

Parameters

Inputs	
Analog Single Ended	1
Input Range	0...2.5V
Digital	1
Input Range	0...2kHz
Serial	1
MeasInterval	1...3600 s
LogInterval	1...3600 s
Statistics	Avg, Min, Max, StDev
EarlyWarningSystem	generates SMS messages to user defined numbers and can change MeasInterval

Internal Memory	4MB
Communication ports	RS232, RS485
Baud Rate	300..115kbps
Realtime Clock	built in
Time Synchronization	via NTP server connection once a day
Time Zone	worldwide
Indication	2 LEDs
Power Source	2xLiION
Charging	over USB or solar panel on the front of the device
Power Consumption	
Sleep	20uA max
Measuring	5mA typ
Remote Data Transfer	Full support for email and FTP data transfer
Modem	LTE with 2G,3G compatibility, worldwide coverage
Temperature Range	-30...+60°C
Protection	IP65
Customization	on request