

RT 2014 data logger

The new generation of RT data loggers enables continuous measurement of temperature and/or humidity values in thermostatic equipment (thermostatic chambers, incubators, refrigerators, freezers, etc...), as well as in the air. In case of temperature increases beyond acceptable range (set by the User) or in case of power failures, the RT 2014 logger can send SMS notifications to selected phone numbers.

The following notifications are available:

- alarm on temperature fluctuations (high/low) with possibility of alarm notification delay
- alarm on 230V power shortage with possibility of alarm notification delay
- automatic reports at certain time of the day or on request

Data logger models






RT 2014_1T - temperature or humidity data logger with GSM, single channel model dedicated for temperature or humidity measurements in the thermostatic chamber (single channel for one Pt 100 sensor or for one humidity sensor); internal memory (stored data can be downloaded to PC with EasyLab Professional software); GSM (sends SMS alarms for 2 phone numbers).

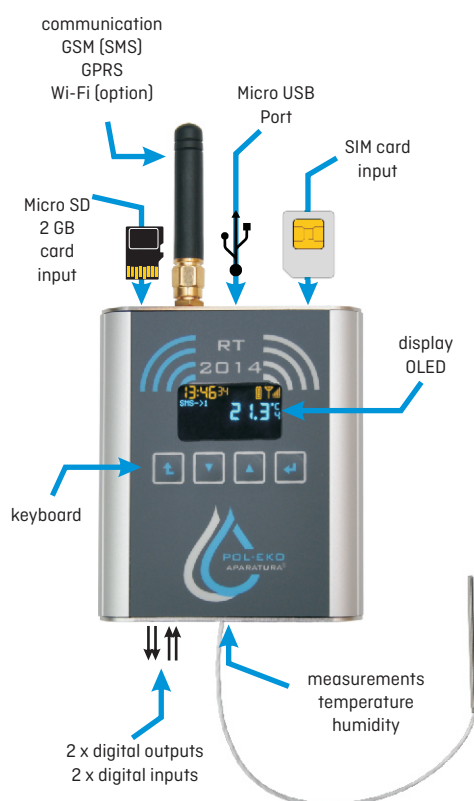
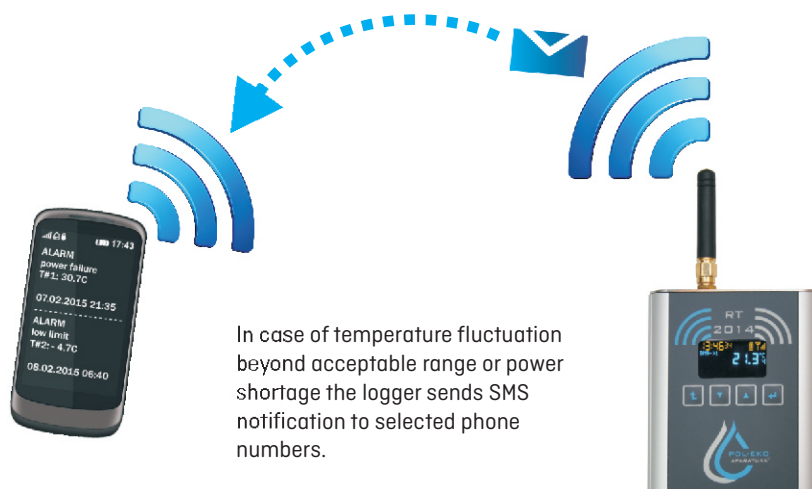
RT 2014_2T - temperature and/or humidity data logger with GSM module, double channel model dedicated for temperature and/or humidity measurements in the thermostatic chamber (double channel for two Pt 100 sensors or one Pt 100 and one humidity sensor); internal memory (stored data can be downloaded to PC with EasyLab Professional software); GSM (sends SMS alarms for 2 phone numbers)

RT 2014_1T_WIFI - temperature or humidity data logger with Wi-Fi single channel model dedicated for temperature or humidity measurements in the thermostatic chamber (single channel for one Pt 100 sensor or for one humidity sensor); internal memory (stored data can be downloaded to PC with EasyLab Professional software);

RT 2014_2T_WIFI - temperature or humidity data logger with Wi-Fi, double channel model dedicated for temperature or humidity measurements in the thermostatic chamber (double channel for two Pt 100 sensors or one Pt 100 and one humidity sensor); internal memory (stored data can be downloaded to PC with EasyLab Professional software);

Accessories

Model	Photo	Description	Measuring range	Cable length
PT 100 H		temperature sensor for RT 2014 data logger, for high temperatures (recommended for CL/SL)	temp.: 0...+400°C	length 2,5 m
PT 100 S		standard temperature sensor for RT 2014 data logger (recommended for ST/CHL/IL/KK)	temp.: -40...+180°C	length 2,5 m
PT 100 L		temperature sensor for RT 2014 data logger, for low temperatures (recommended for ZL)	temp.: -110...+120°C	length 2,5 m
RH_STD		humidity and temperature sensor for RT 2014 data logger (recommended for ST/IL)	rH: 0...80% temp.: 0...60°C	length 2,5 m
RH_PREM		humidity and temperature sensor for RT 2014 data logger (recommended for KK)	rH: 0...100% temp.: -50...100°C	length 2,5 m
HP	-	internal pressure sensor	-	-
EasyLab Professional		software, see pages 68 for more details	-	-
FIT		fitting	-	-



RT 2014*



Parameter

temperature measurement	2 x external Pt 100
temperature measurement range [according to sensor] [°C]	-110 ... +400
temperature measurement range [according to sensor] [°F]	-166 ... +752
resolution / accuracy of temperature measurement [°C]	0,1 / +/- 0,2
humidity measurement	external SHT / HygroClip
humidity measurement range [%]	SHT: 0-80; HygroClip 0-100
resolution / accuracy of humidity measurement [%]	1% / SHT: 1,8; HygroClip 0,8
air pressure measurement	internal - piezo-resistant
pressure measurement range [hPa]	300 - 1100
resolution / accuracy of pressure measurement [hPa]	1 / 1,5
length of sensors cables [m]	2,5
real time clock	yes
data record interval [min]	1/5/15/30/60
internal memory	1 mln data measurements
additional (external) memory	Micro SD 2 GB card
interface	Micro USB
power supply	5 VDC via USB port
battery life	48 hours
display	OLED 128x64 px
overall dims (HxWxD) [mm]	85 x 72 x 20
weight [g]	165
GSM frequency	4 ranges
quantity of phone numbers for SMS notification	5
warranty	24 months
manufacturer	POL-EKO-APARATURA

* parameters for fully equipped model

Calibration

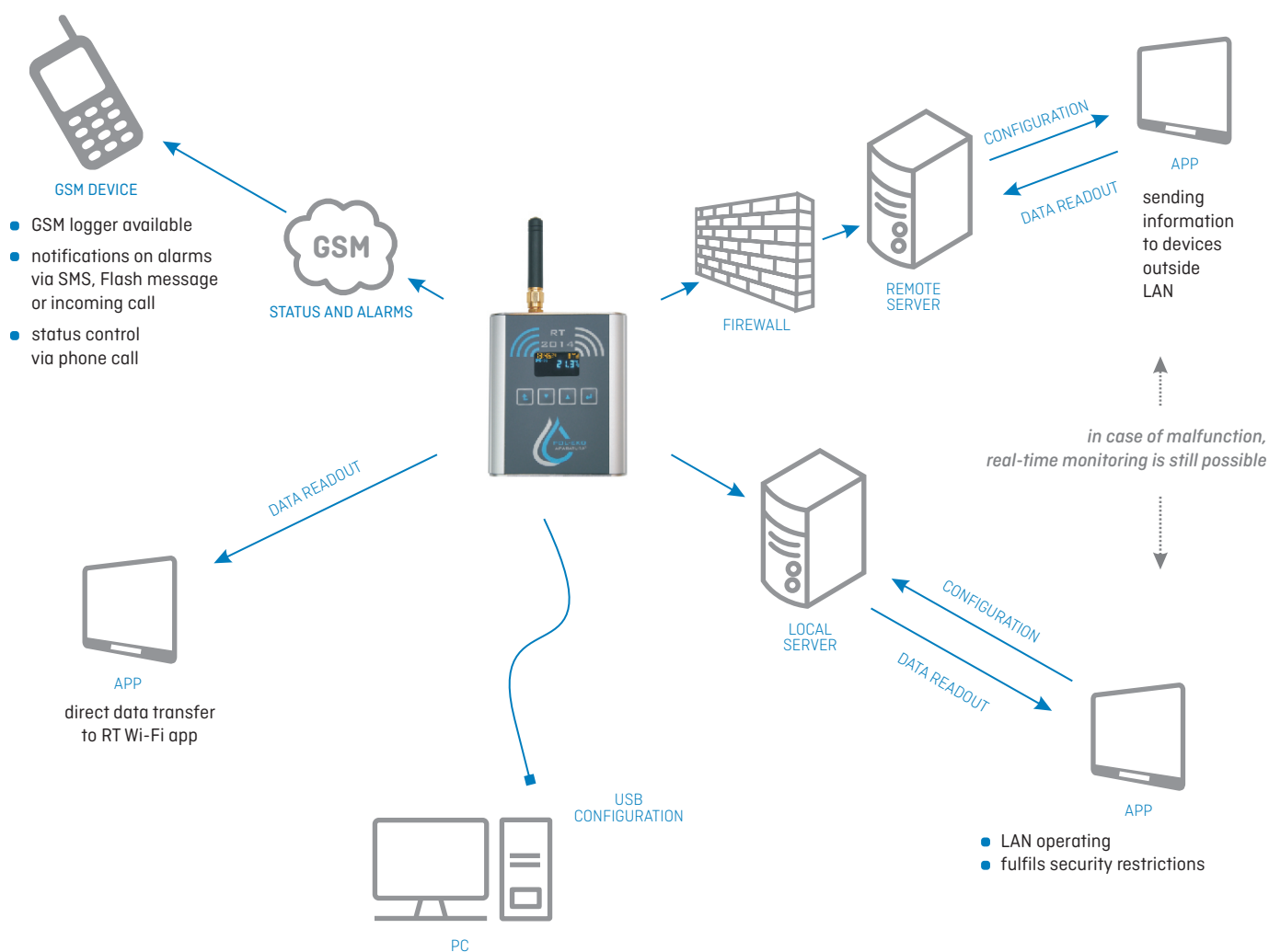


All thermostatic equipment manufactured by POL-EKO-APARATURA can be provided with Calibration Certificate issued by accredited Measurement Laboratory. Detailed information on accreditation of POL-EKO Laboratorium Pomiarowe is available on website: www.polekolab.pl.

RT 2014 GSM & Wi-Fi operating diagram

RT 2014 monitoring system complies with requirements of
Sanitary-Epidemiological Stations on vaccines storage conditions.

All available alarms ensure safe and proper storage of significant value vaccines in refrigerators.
Temperature fluctuations beyond acceptable range not only can cause financial losses,
but also health and life threat for people who undergo vaccinations.



RT 2014 app allows communication between data logger and smartphone (available for download in Google Play)



RT 2014

go to website