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.
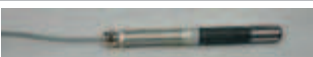The following notifications are available:

- 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 – single channel logger for temperature or humidity measurement and registration with GSM module, for one temperature sensor or one humidity sensor
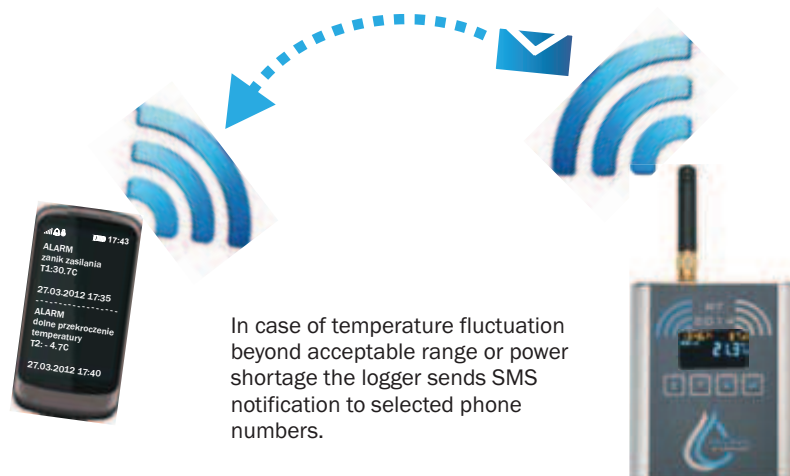
RT 2014_2T – double channel logger for temperature or humidity measurement and registration with GSM module, for two temperature sensors or for one temperature sensor and one humidity sensor

Accessories

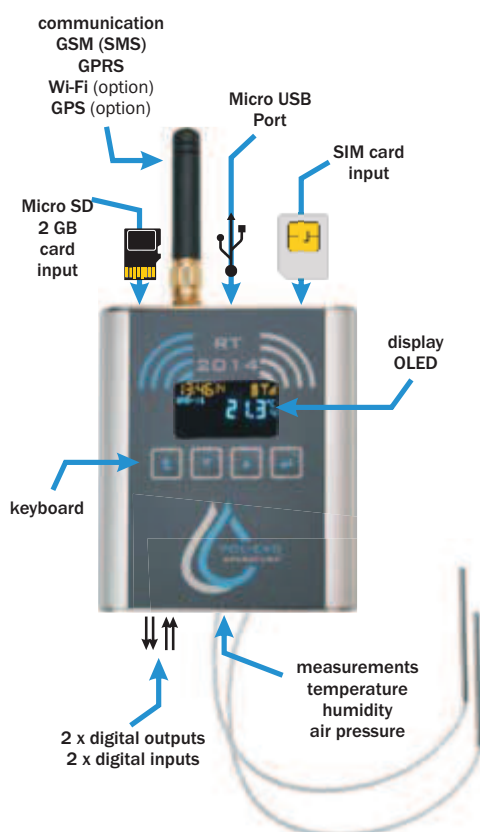| Model	Photo	Description	Measuring range	Cable lenght
PT 100 H		temperature sensor for RT 2014 data logger, for high temperatures (recommended for CL/SL)	temp. 0…+400°C	lenght 2,5 m
PT 100 S		standard temperature sensor for RT 2014 data logger (recommended for ST/CHL/IL/KK)	temp. -40…+180°C	lenght 2,5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

**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.**

Wi-Fi and
GPS options
available soon!

In case of temperature fluctuation beyond acceptable range or power shortage the logger sends SMS notification to selected phone numbers.

communication
GSM (SMS)
GPRS
Wi-Fi (option)
GPS (option)

Micro USB
Port

SIM card
input

Micro SD
2 GB
card
input

display
OLED

keyboard

measurements
temperature
humidity
air pressure

2 x digital outputs
2 x digital inputs

Parameter	RT 2014*
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

POL-EKO Measurement Laboratory
(Accredited by the Polish Center for Accreditation - a member of ILAC)
may provide calibration of the RT 2014 logger

See www.polekolab.com for more details on accredited range

ilac-MRA

POL-EKO LAB