

MONITORING SYSTEM



RT 2014 data logger with SMS notification enables constant measurement with temperature and/or humidity data logging.

We offer the following models:

- ✓ **RT 2014_1T** - temperature or humidity data logger with GSM module, single channel model for temperature sensor or humidity sensor
- ✓ **RT 2014_2T** - temperature or humidity data logger with GSM module, double channel model for two temperature sensors, or for one temperature sensor and one humidity sensor.

The logger can be equipped with the following sensors:

- ✓ **PT 100 H** - temperature sensor for RT 2014 data logger, for high temperatures, temperature range: 0...+400°C, 2.5 m cable
- ✓ **PT 100 S** - standard temperature sensor for RT 2014 data logger, temperature range: -40...+180°C, 2.5 m cable
- ✓ **PT 100 L** - temperature sensor for RT 2014 data logger, for low temperatures, temperature range: -110...+120°C, 2.5 m cable
- ✓ **SHT** - humidity and temperature sensor for RT 2014 data logger
- ✓ **HYGRO** - humidity and temperature sensor for RT 2014 data logger
- ✓ **HP03M** - internal piezo-resistant pressure sensor

In order to avoid unnecessary SMS notifications in case of temporary temperature fluctuations (resulted by e.g. door opening) or temporary power failures, an alarm delay function has been introduced.

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

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



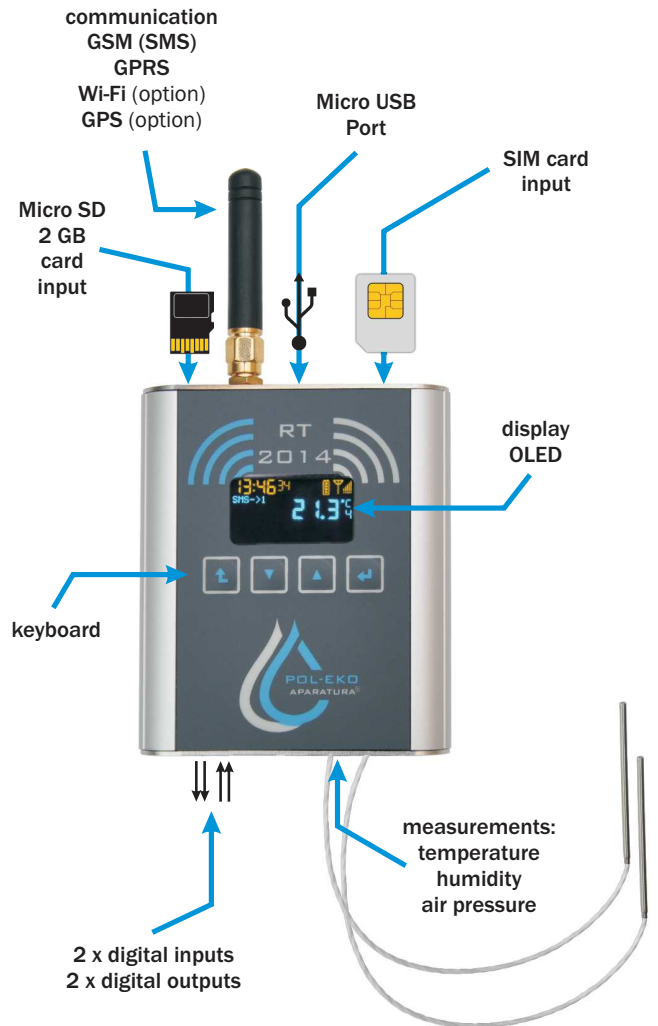
Technical parameters:

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



In case of temperature increase 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.



Available notifications:



- ✓ 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



AP 115



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



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