

Appendix D (Obligatory)

LIST OF PARAMETERS ACCESSIBLE FOR DISPLAYING AND EDITING USING THE “Configurator” SOFTWARE

The list of pages (tabs) available for configuring:

- Common;
- Measure;
- *Service*;
- Pumping;
- Network;
- Archive;
- Spectra.

Note - This tab appears only after the program is switched into expanded access mode. By default this tab is hidden.

“Common” tab

This tab contains general information about the monitor and includes the following parameters:

Serial number – serial number (works number) of the connected monitor.

Current time – date, month, year and time, minutes and seconds of the reading.

Life, h – total operating time of the device (in hours) from putting into operation.

Siren state – checking of the state of device’s audible alarm. The “tick” is automatically set when the audible alarm is turned on in case the last reading of the device exceeds the first or the second threshold.

For testing of proper operation of the alarm it is necessary to set the “tick” manually and click on the button “Transfer to the device”. The alarm then should turn on and sound until the end of the current measurement cycle. In this case the state of the alarm will be determined by measured value of the volumetric activity and by thresholds.

To stop testing one should to remove the “tick” and click on the button “Transfer to the device”.

Indicator state – checking of the state of device’s colour indicator. The state of the colour indicator at the time of reading is represented by “dot” and by colour of the field. The state of the colour indicator is determined by the last reading (measured value). The yellow signal and audible alarm are turned on in case the first alarm threshold is exceeded, and the red signal and audible alarm - in case the second alarm threshold is exceeded.

For testing of proper operation of the light signal it is necessary to select the colour manually by setting a “dot” next to the desired colour and click on the button “Transfer to the device”. The indicator with selected colour will be lit.

To stop testing one should to set the “dot” in the original position next to the green indicator and click on the button “Transfer to the device”.

In case the alarm unit (BAS) is connected to the device, its operability is tested concurrently with testing of the operability of device’s colour indicator.

Device status – number, which represents the operability or failure of the device and its interpretation bit-by-bit. The revealed malfunctions are automatically checked by “ticks” and highlighted by yellow colour.

Output dry contact – indicator of the relay circuit state at the moment of reading. The “tick” is set automatically in case that last read measured value exceeds the dry contact threshold.

For testing of the operability of the relay circuit set or remove the “tick” manually then click on the button “Transfer to the device”.

The state of the dry contact in the device is updated after completion of each measurement interval.

“Measure” tab

This tab displays the device’s measurement results, the thresholds settings and the state of dry contacts. The tab includes the following parameters:

Volumetric activity, Bq/m³ – the last measured value of the total volumetric activity of radioactive gases in the air.

Measure time – period of regular updating of the readings of the measured quantity.

thresholds, Bq/m³:

- **Warning threshold** – the value of volumetric activity of radioactive gases in the air that corresponds to the first threshold (Warning).
- **Alarm threshold** – the value of volumetric activity of radioactive gases in the air that corresponds to the second threshold (Alarm).
- **Dry contact threshold** – the threshold value of volumetric activity of radioactive gases in the air that corresponds to the dry contact closing/opening.

“Service” tab

This tab appears only after the program is switched into expanded access mode. The tab includes the following parameters:

Intrinsic background, imp./s. – the intrinsic background of the device determined as a result of the last calibration.

Sensitivity – value of the device’s sensitivity to beta-radiation of ⁸⁵Kr, determined as a result of the last calibration.

Rough discriminator threshold – service parameter necessary for controlling the threshold of digital discriminator of the ADC.

Fine discriminator threshold – service parameter necessary for controlling the threshold of digital discriminator of the ADC.

Service functions – service parameter, which characterizes the service functions used and their interpretation bit-by-bit.

“Network” tab

This tab represents network parameters of the device and contains the following:

MODBUS RTU/RS-485:

- **Address** – net address, provided that the device supports the MODBUS protocol.
- **Rate** – data exchange rate (bps), provided that the device supports the MODBUS protocol.

Ethernet support – control of the support of the communication channel Ethernet. Ticking this check box is NOT recommended in case the device uses the MODBUS communication channel.

“Archive” tab

This tab represents the list of parameters available for review in the achieve mode (principles of working with achieve are described in the User Manual for the “Configurator” software):

- Time;
- Serial number (in the expanded access mode);
- Status;
- Audible alarm (in the expanded access mode);
- Light signal (in the expanded access mode);
- Volumetric activity, Bq/m³;
- Output dry contact (in the expanded access mode);
- Excess of the Warning threshold (*in the expanded access mode*);
- Excess of the Alarm threshold (*in the expanded access mode*);

“Spectra” tab

This tab represents energy spectra of the main and background channels. Principles of working with spectra are described in the User Manual for the “Configurator” software.