Appendix F
(Obligatory)

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

The list of pages (tabs) available for configuring:

- Common;
- Measure;
- *Service;*
- Network;
- Archive;

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

Tab "Common"

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.

Firmware version – version of the device's built–in software.

Device version – hardware platform version of the connected device.

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.

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.

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".

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.

"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/m^3 – the last measured value of the total volumetric activity of the beta-emitting radioactive gases in the air.

Warning threshold – the value of volumetric activity of the beta-emitting radioactive gases in the air that corresponds to the first threshold (Warning).

Alarm threshold – the value of volumetric activity of beta–emitting radioactive gases in the air that corresponds to the second threshold (Alarm).

Warning threshold exceeded – in this field a "tick" automatically appears after updating of data in case the last reading (measured value) of the activity of beta–emitting radioactive gases in the air exceeds corresponding threshold 1 (Warning).

Alarm threshold exceeded – in this field a "tick" automatically appears after updating of data in case the last reading (measured value) of the activity of beta–emitting radioactive gases in the air exceeds corresponding threshold 2 (Alarm).

Dry contacts:

- **Dry contact threshold, Bq/m^3** – the threshold value of volumetric activity of beta–emitting radioactive gases that corresponds to the dry contact closing/opening.
- **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.

"Service" tab

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

Sensitivity – value of the device's sensitivity to beta–radiation, determined as a result of the last calibration.

Measurement time – period of regular updating of data (seconds).

Intrinsic background, Bq/m^3 – the intrinsic background of the device Bq/m^3 determined as a result of the last calibration.

Operational current; Operational voltage; Bias voltage; Bias current – values of working parameters of the radiometric measuring channel.

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

Unbiased volumetric activity, Bq/m^3 – measured value of the volumetric activity of beta-emitting radioactive gases (used for integral calculations). Negative values are allowed that may be obtained as a result of background subtraction.

"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/m^3;
- Output dry contact (*in the expanded access mode*);
- Sensitivity (*in the expanded access mode*);
- Threshold 1 (Warning) (*in the expanded access mode*);
- Threshold 2 (Alarm) (*in the expanded access mode*);
- 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*);

"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.