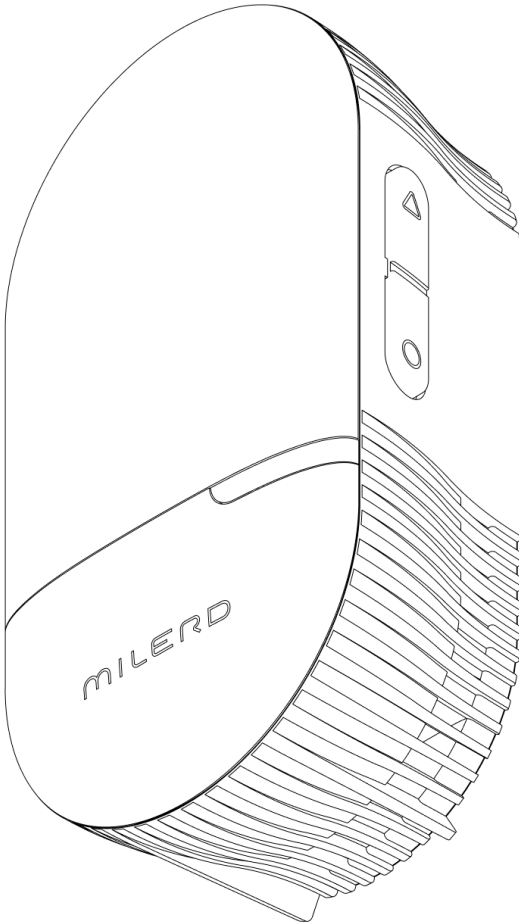


MILERD

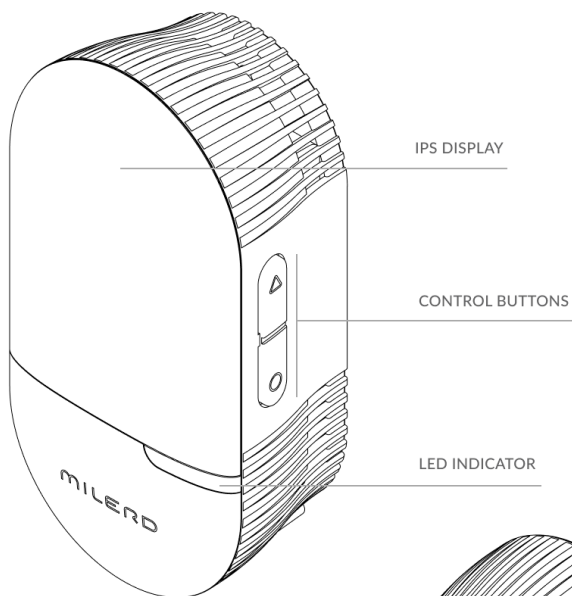
MANUAL



Aero Q8

Radon Gas Detector & Air Quality Monitor.

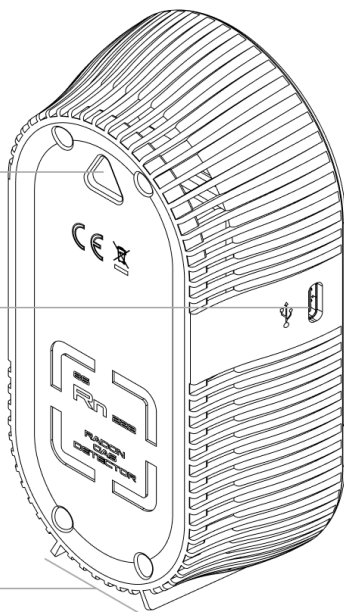
DEVICE LAYOUT



MOUNTING HOLE

USB TYPE-C CHARGING PORT

REAR SUPPORTS



GENERAL INFORMATION

1. MILERD AERO Q8

MILERD AERO Q8 IS A MULTIFUNCTIONAL DEVICE THAT COMBINES THE FUNCTIONS OF AN AIR QUALITY ANALYSER AND A RADON DETECTOR. IT IS USED TO ANALYSE THE AIR FOR **PM 1, PM 2.5, PM 10, AND VOC** PARAMETERS, MEASURE **TEMPERATURE** AND **HUMIDITY**, AND ASSESS **THE RISK OF MOULD FORMATION**. THE DEVICE DETECTS THE **RADON CONCENTRATION** IN THE AIR AND GIVES A VISUAL AND ACOUSTIC SIGNAL IF THE PERMISSIBLE VALUE IS EXCEEDED. THE DATA IS SHOWN ON A COLOUR IPS DISPLAY. THE DEVICE SAVES THE STATISTICS OF RADON LEVEL MEASUREMENTS FOR 1 YEAR.

THE RADON MEASUREMENT METHOD IS BASED ON PHOTOMETRIC MEASUREMENT WITH ELECTROSTATIC DEPOSITION OF ALPHA-PARTICLES AS A DECAY PRODUCT OF RADON-222.

2. SAFETY

1. READ THIS MANUAL BEFORE USE.
2. USE THE DEVICE ONLY FOR ITS INTENDED PURPOSE AS SPECIFIED IN THE MANUAL.
3. AVOID SHAKING AND DROPPING THE DEVICE TO PREVENT DAMAGE TO THE WORKING PARTS.
4. PREVENT MOISTURE FROM REACHING POWER CONNECTORS.
5. BEFORE CONNECTING THE DEVICE TO A POWER SUPPLY, MAKE SURE THAT THE VOLTAGE CORRESPONDS TO THAT INDICATED ON THE RATING TABLE.
6. DO NOT SUBMERGE THE DEVICE IN WATER.

IN CASE OF NON-COMPLIANCE WITH THE RECOMMENDED OPERATING PROCEDURES, SAFETY IS COMPROMISED.

3. STORAGE AND TRANSPORTATION

1. TRANSPORT AND STORE THE DEVICE AT A TEMPERATURE FROM -60 °C TO 45°C, WITH RELATIVE HUMIDITY OF UP TO 95%; PROTECT THE PACKAGING FROM DIRECT SUNLIGHT AND MOISTURE.
2. THE SERVICE LIFE OF THE DEVICE IS 5 YEARS AND IS SUBJECT TO OPERATING CONDITIONS.

4. DISPOSAL

THIS SYMBOL INDICATES THAT THE PRODUCT AND/OR ITS BATTERY SHALL NOT BE DISPOSED OF WITH HOUSEHOLD WASTE. DISPOSE OF THE DEVICE IN ACCORDANCE WITH LOCAL LAWS AND REGULATIONS.

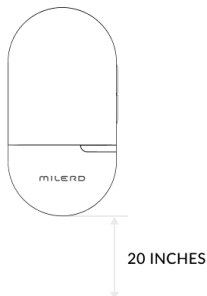


5. MOUNTING

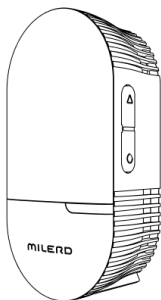
THE DEVICE CAN BE PLACED VERTICALLY OR HORIZONTALLY ON A FLAT SURFACE OR MOUNTED ON A WALL.

THE DEVICE IS RECOMMENDED TO BE PLACED AT LEAST 20 INCHES ABOVE THE FLOOR. DO NOT PLACE THE DEVICE NEXT TO OPEN WINDOWS OR VENTS.

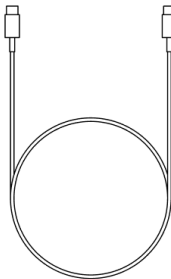
THERE IS A TRIANGULAR HOLE ON THE BACK OF THE DEVICE TO MOUNT IT ON THE WALL.



6. SUPPLY PACKAGE



MILERD AERO Q8



USB TYPE-C CHARGING CABLE

7. TECHNICAL SPECIFICATIONS

SCREEN	IPS LCD 2.4 INCHES
RADON MEASUREMENT RANGE	up to 9999 Bq/m ³ (270 pCi/L)
MEASUREMENT METHOD	Photometric measurement with electrostatic deposition of Alpha-particles
FIRST RESULT	within 6 hours
RADON MEASUREMENT ACCURACY	±12%
PM MEASUREMENT RANGE	0..1000 µg/m ³
PM MEASUREMENT ACCURACY	±15%
VOC MEASUREMENT RANGE	0..1000 ppm
BATTERY	1500 mAh, 3.7 V, LiPo
CONTINUOUS OPERATING TIME	10 hours (continuously) / up to 300 hours (with the screen off)
CHARGING TIME	3 h
POWER INTERFACE	USB TYPE-C 5V/1A
OVERALL DIMENSIONS	125 × 65 × 45 mm
WEIGHT	200 g
OPERATING TEMPERATURE	-10..40°C
PROTECTION RATING	IP 40

8. WARRANTIES

1. THE WARRANTY PERIOD FOR THE DEVICE IS 12 MONTHS FROM THE DATE OF SALE THROUGH A RETAIL NETWORK. IF THE MARKING FROM THE TRADING ORGANIZATION IS ABSENT, THE WARRANTY PERIOD SHALL START FROM THE DATE OF THE PRODUCT MANUFACTURE. THE MONTH AND YEAR OF THE PRODUCT MANUFACTURE ARE SPECIFIED IN THE WARRANTY CERTIFICATE.
2. ALL RECHARGEABLE BATTERIES ARE CONSUMABLE ITEMS THAT BECOME LESS EFFECTIVE AS THEY CHEMICALLY AGE. CONSUMABLES SHALL NOT BE COVERED BY THE WARRANTY.
3. WARRANTY REPAIRS SHALL BE CARRIED OUT BY THE MANUFACTURER.
4. CLAIMS FOR PRODUCTS WITH DAMAGES CAUSED BY INAPPROPRIATE OPERATION SHALL NOT BE ACCEPTED.
5. BREAKDOWN OF THE DEVICE CAUSED BY THE VIOLATION OF SAFETY RULES SHALL NOT BE COVERED BY THE WARRANTY.

ABOUT PROBLEM

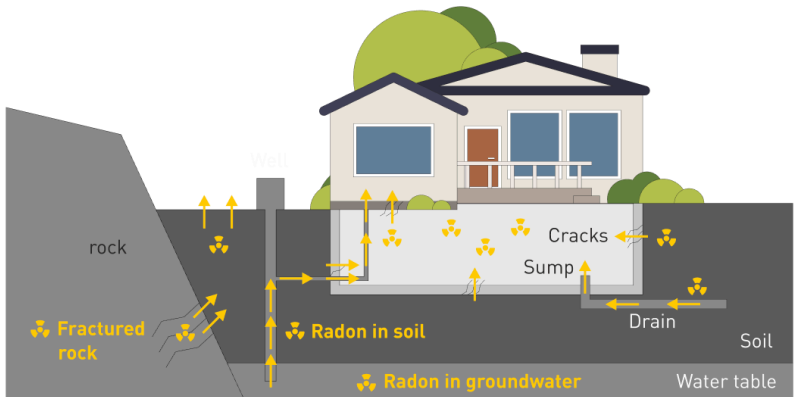
8. RADON

RADON IS AN ODOURLESS, COLOURLESS AND TASTELESS RADIOACTIVE GAS. RADON IS A RESULT OF THE NATURAL RADIOACTIVE DECAY OF URANIUM THAT IS CONTAINED IN ALL ROCKS AND SOILS. RADON CAN ALSO BE FOUND IN WATER.



WHEN RELEASED FROM THE GROUND INTO THE AIR, RADON DECAYS, FORMING RADIOACTIVE PARTICLES. WHEN WE BREATHE, THESE PARTICLES ACCUMULATE IN THE CELLS OF A RESPIRATORY EPITHELIUM, WHICH CAN FURTHER DAMAGE CELL DNA AND LEAD TO THE DEVELOPMENT OF LUNG CANCER.

IN THE AMBIENT AIR, THE CONCENTRATION OF RADON DROPS QUICKLY TO VERY LOW LEVELS AND IS USUALLY NOT HAZARDOUS. HOWEVER, THE CONCENTRATIONS ARE HIGHER INDOORS AND IN POORLY VENTILATED AREAS, FOR INSTANCE, IN MINES, CAVES, AND WASTEWATER TREATMENT PLANTS. IN BUILDINGS LIKE HOUSES OR FLATS, SCHOOLS, AND OFFICES, RADON CONCENTRATION LEVELS CAN VARY SIGNIFICANTLY, FROM 10 BQ/M³ TO MORE THAN 10,000 BQ/M³. THUS, CONSIDERING RADON PROPERTIES, PEOPLE LIVE OR WORK IN SUCH BUILDINGS IN THE CONDITIONS OF EXCEEDINGLY HIGH RADON CONCENTRATIONS OFTEN UNKNOWINGLY.



9. PM

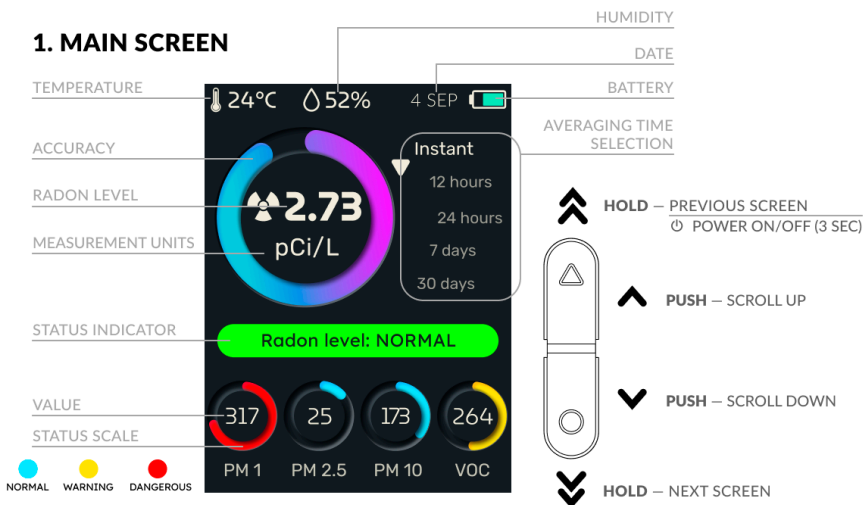
FINE PARTICLES ARE DETERMINANT AIR POLLUTANTS DENOTED ACCORDING TO THEIR SIZE IN NANOMETRES AS PM 1, PM 2.5 AND PM 10, RESPECTIVELY. THESE PARTICLES ARE DANGEROUS BECAUSE THEY ARE EASILY ABSORBED THROUGH LUNG CAPILLARIES DUE TO THEIR SMALL SIZE AND CARRIED TO ALL INTERNAL PARTS OF THE BODY THROUGH THE BLOODSTREAM.

10. VOC

VOLATILE ORGANIC COMPOUNDS (VOCs) ARE GASES EMITTED FROM CERTAIN SOLIDS OR LIQUIDS. VOCs INCLUDE A VARIETY OF CHEMICALS, SOME OF WHICH MAY HAVE SHORT- AND LONG-TERM HARMFUL HEALTH EFFECTS. CONCENTRATIONS OF MANY VOCs ARE CONSISTENTLY HIGHER INDOORS (UP TO TEN TIMES) THAN OUTDOORS. THE EXAMPLES INCLUDE PAINTS AND LACQUERS, PAINT STRIPPERS, CLEANING PRODUCTS, PESTICIDES, BUILDING MATERIALS AND FURNISHINGS, OFFICE EQUIPMENT SUCH AS COPIERS AND PRINTERS, CORRECTION FLUIDS AND CARBONLESS COPY PAPER, GRAPHICS AND CRAFT MATERIALS INCLUDING GLUES AND ADHESIVES, PERMANENT MARKERS, AND PHOTOGRAPHIC SOLUTIONS.

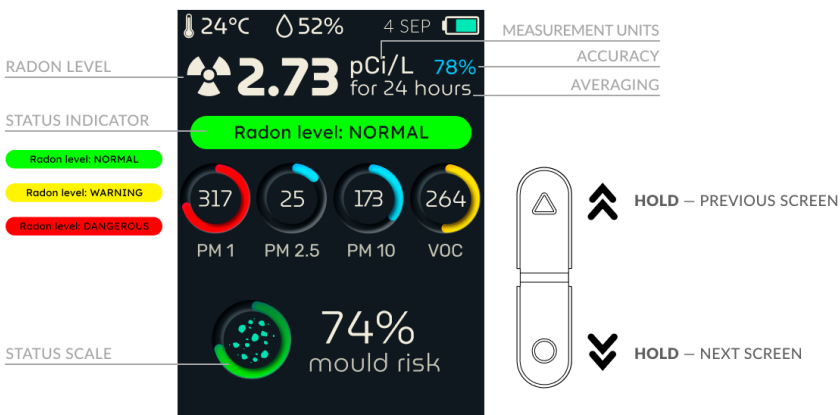
INTERFACE

1. MAIN SCREEN



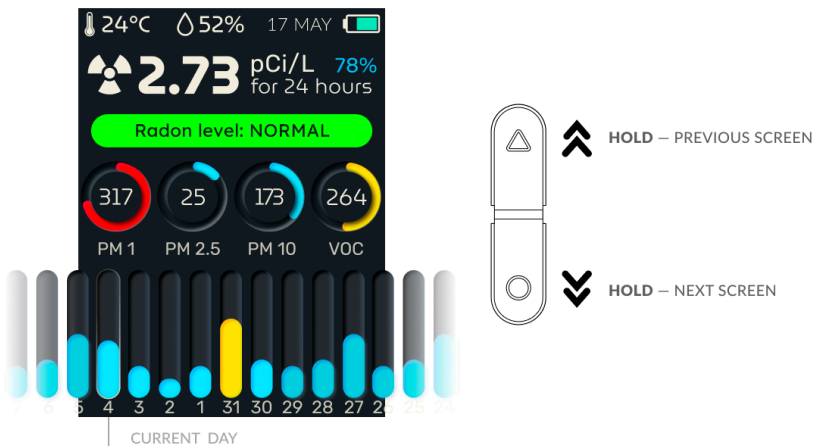
THE MAIN SCREEN SHOWS THE MAIN MEASUREMENT PARAMETERS. TO THE RIGHT OF THE RADON LEVEL, THERE IS A FIELD WHERE YOU CAN SELECT THE TIME TO AVERAGE THE MEASUREMENT RESULTS. THE RADON CIRCULAR SCALE SHOWS THE ACCURACY OF DISPLAYED VALUES (THE LONGER THE MEASUREMENT, THE HIGHER THE ACCURACY). THE CIRCULAR SCALE FOR PM AND VOC INDICATES THE LEVEL OF DANGEROUS EXPOSURE.

2. MOULD RISK SCREEN



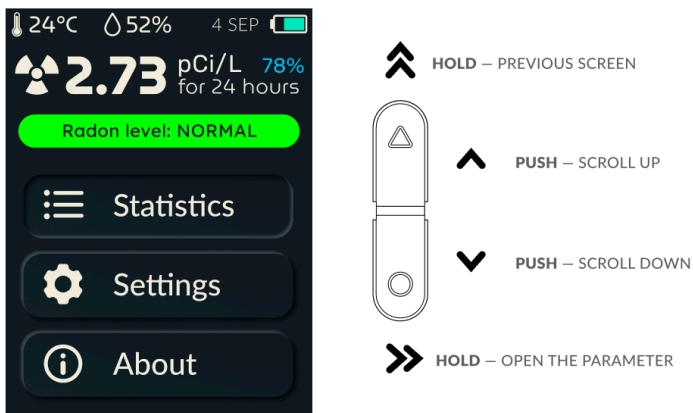
THE DEVICE ANALYSES THE AIR QUALITY AND DETERMINES THE RISK OF MOULD FORMATION BASED ON THE PARAMETERS MEASURED.

3. STATISTICS SCREEN



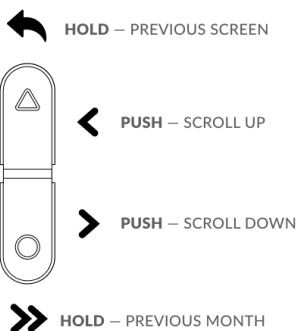
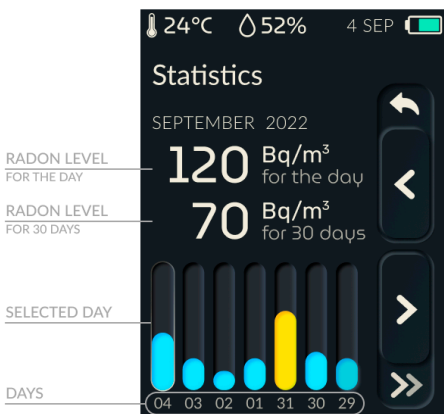
THE STATISTICS SCREEN SHOWS A GRAPH OF RADON MEASUREMENTS FOR THE PAST 9 DAYS. USE THE BUTTONS TO NAVIGATE THROUGH THE MEASUREMENT HISTORY. THE DETAILED STATISTICS SECTION CAN BE ACCESSED BY SELECTING THE NECESSARY MENU ITEM ON THE NEXT SCREEN.

4. MENU



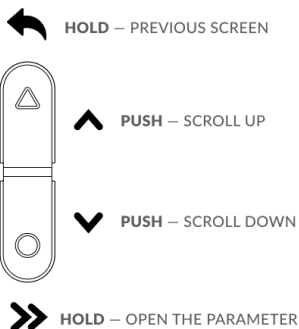
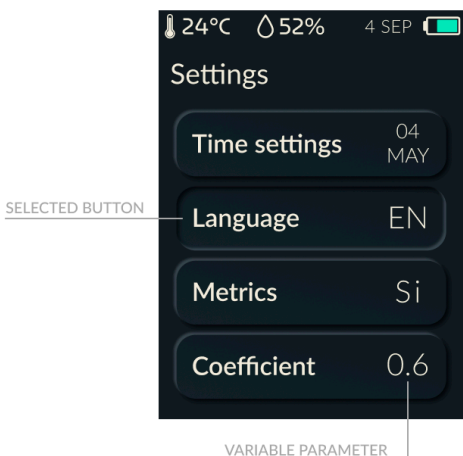
THE MENU CONTAINS DETAILED MEASUREMENT STATISTICS, SETTINGS AND DEVICE INFORMATION.

5. STATISTICS



THE DETAILED STATISTICS SCREEN SHOWS A GRAPH AND NUMERICAL VALUES OF RADON MEASUREMENTS PER DAY AND FOR THE PAST 30 DAYS. USE THE BUTTONS TO NAVIGATE THROUGH THE MEASUREMENT HISTORY. THE DEVICE SAVES THE STATISTICS OF RADON LEVEL MEASUREMENTS FOR 1 YEAR.

4. SETTINGS



CURRENT SETTINGS ARE SHOWN TO THE RIGHT. TO CHANGE THE REQUIRED PARAMETER, SELECT IT AND HOLD DOWN THE LOWER BUTTON. THE WINDOW TO CHANGE THE SELECTED PARAMETER WILL OPEN.

WARRANTY CERTIFICATE

MILERD AERO Q8

No. _____

Date of manufacture _____

QC department representative _____

QC stamp

Quality claims address: Sr Tech LLC, 97500 Radomsko;
Zeromskiego 22/2; Poland, info@milerd.com milerd.com

TO BE FILLED BY RETAILER

Date of sale _____

day, month, year

Seller _____

signature

Seal

ACCEPTANCE CERTIFICATE

MILERD AERO Q8

No. _____

Head of QC department _____

signature

full name

day, month, year

Seal

MILERD



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