



FAST AND FULLY AUTOMATED

**15 MINUTES TIME TO RESULT**

Providing microbiological contamination as a process parameter



## KEY FEATURES

- ✓ fully automated sampling, measurement, cleaning and calibration
- ✓ Fully controllable through internet connection
- ✓ up to 54 (80 in special cases) measurements per day
- ✓ Online data visualization and automatic notification
- ✓ 2 sample intakes (more optional)
- ✓ 1000 measurements without staff intervention

## Five years of field operation prove reliability and stability

Vienna Water Monitoring Solutions VWMS is an Austrian company developing and supplying technology for fully automated rapid microbiological contamination measurements.






The ColiMinder technology is based on the direct measurement of the specific metabolic activity of target organisms present in the sample, instead of letting bacteria grow colonies and count them.

The measurement timeline provides a new layer of information of the microbiological dimension of a process.

Integrating fully automated microbiological real-time measurements into process control enables a drastic increase in efficiency and safety of water treatment processes and distribution networks.

Since early 2014 ColiMinder devices are deployed in different applications around the globe. The measurement devices did prove their reliability and robustness even under extreme environmental conditions as well as measuring in difficult sample matrices.

## Successfully tested and evaluated in various applications

-  **DRINKING WATER**
-  **WASTE WATER**
-  **INDUSTRIAL WATER**
-  **SURFACE WATER**
-  **MEMBRANE INTEGRITY**



# DATA TRANSFER AND VISUALIZATION



Measurements data is directly transmitted to server through internet/network connection



Measurement results are also available through RS232/RS485 or Modbus TCP (optional)



Live data visualization on dedicated website, results can be downloaded



Measurement results can be saved on USB Flash Drive directly from the device



Automatic notifications can be set (E-mail, SMS)



4 to 20 mA output optional



## CONNECTION PORTS



WIFI



LAN



RS232



USB



HDMI output



Internal GPRS/  
LTE-Modem



Alarm-Relay output  
or alarm flashlight



Autosampler  
control port (ISCO)

## ADD-ON MODULES

- + Sample Delivery Module
- + Auto Sampler Control Module
- + Tenfold Multisampling Module
- + GPS Position Sensor

## TARGET ORGANISMS

available for ① Fresh Water | ② Saline Water



### E. COLI ①②

Specific indicator  
of faecal pollution



### ENTEROCOCCI ①②

Specific indicator  
of faecal pollution



### TOTAL ACTIVITY ①○

Bulk parameter of total  
microbiological activity

## MEASUREMENT UNITS CALIBRATION OF THE INSTRUMENT

ColiMinder™ is measuring the microbiological contamination through the specific enzymatic activity of the respective target microorganisms.

ColiMinder™ devices deliver quantitative results calibrated to respective enzymatic units according to the scientific definition for the given enzymatic activity.

## DIFFERENT VERSIONS AVAILABLE

### INDUSTRIAL STANDARD

- ✓ Described functions included
- ✓ Internal 4G Modem
- ✓ 90 - 260 V AC 150W

### INDUSTRIAL LOW ENERGY (LE)

- ✓ Described functions included
- ✓ Internal 4G Modem
- ✓ 12V DC 55W



### EMERGENCY RESPONSE UNIT (ERU)

- ✓ Low energy consumption
- ✓ Including tenfold multi-sampling module
- ✓ for mobile/driving lab use
- ✓ assembled on a rack