



**ColiMinder®**  
**ONLINE BACTERIAL MONITORING**  
by Vienna Water Monitoring Solutions

## ONLINE MEASUREMENTS OF **BACTERIAL CONTAMINATION** 15 MIN – FULLY AUTOMATIC



### KEY FEATURES

- ✓ Fully automatic sampling, measurement, cleaning and calibration
- ✓ Online data visualization and automatic notification
- ✓ Fast – 15 minutes from sampling to result
- ✓ Specific measurement results for determined indicator organisms
- ✓ up to 54 (80 in special cases) measurements per day
- ✓ Low Maintenance – reagent refill every 1,000 measurements

### Proven Reliability, Stability and Robustness

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

The ColiMinder 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 2014, ColiMinder devices are deployed in different applications around the globe. The measurement devices did prove their reliability and robustness under extreme environmental conditions as well as when measuring in difficult sample matrices. Over 80 customer installations globally are a proven track record.

### Proven track record in applications throughout the entire water cycle



DRINKING WATER



BOTTLED WATER



WASTEWATER



PROCESS WATER



SURFACE & BATHING  
WATER



MEMBRANE  
INTEGRITY



## DATA TRANSFER AND VISUALIZATION



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



Live data visualization on dedicated website, results can be downloaded



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



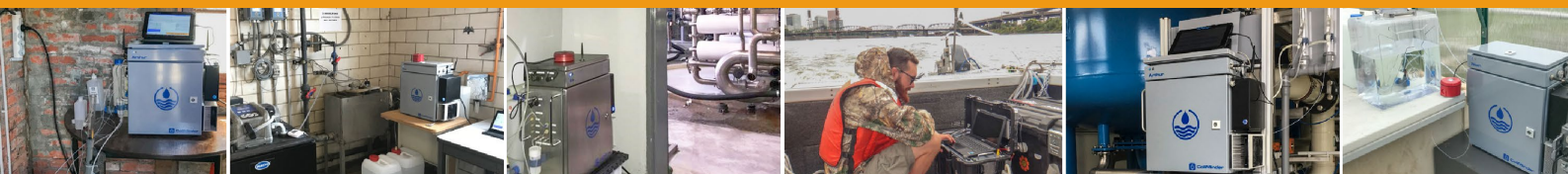
Measurement results are also available through RS232/RS485 or Modbus TCP (optional)



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



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
- ✓ Sample Switching Module
- ✓ ISCO Autosampler Control Module
- ✓ Tenfold Multisampling Module
- ✓ Depressurization Unit

## TARGET ORGANISMS



E. COLI



E. COLI  
SALINE



ENTERO-  
COCCUS



ENTERO-  
COCCUS  
SALINE



TOTAL  
ACTIVITY



TOTAL  
ACTIVITY  
MINERAL  
WATER

### E. COLI

Specific indicator of  
fecal contamination

### ENTEROCOCCI

Specific indicator of  
fecal contamination

### TOTAL ACTIVITY

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

- ✓ Internal 4G/LTE Modem
- ✓ 90 - 260 V AC 150W

### INDUSTRIAL LOW ENERGY (LE)

- ✓ Internal 4G/LTE Modem
- ✓ 12V DC 55W



### EMERGENCY RESPONSE UNIT (ERU) - MOBILE

- ✓ Low energy unit assembled on a rack with all necessary items on board
- ✓ Including tenfold multi-sampling module
- ✓ for mobile/driving lab use



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