



ColiMinder[®] – CMI-02

RAPID MICROBIOLOGY

ColiMinder[®] is a fully automated system measuring microbiological contamination of liquid samples.

- ✓ 15 minutes time to result
- ✓ no sample pretreatment is needed
- ✓ self-calibrating and self-cleaning
- ✓ 2 sample intakes (more optional)
- ✓ automatic sample dilution possible
- ✓ turbidity is compensated
- ✓ Internal data modem (data-SIM card required)
- ✓ remote controllable through internet connection
- ✓ online data visualization and automatic notification
- ✓ devices are calibrated to the respective scientific definition of enzymatic activities
- ✓ results are given in the respective scientifically defined units



ColiMinder[®] Versions:

- INDUSTRIAL Standard
- INDUSTRIAL-LE low energy version (max. 12V DC 55W)
- ERU – Emergency Response Unit, fully equipped for use in cars
- Mobile (for scientific use)

Up to **1.000 measurements without staff intervention**

Sample delivery and **various other add-on modules available**

The ColiMinder[®] is able to **control ISCO 6700 auto samplers** to automatically **collect samples at contamination peaks.**

Specifications:

Measurement time for quantitative results:	15 min.
Full working cycle incl. automatic cleaning:	< 30 min.
Detection Limit (E.coli activity):	0.0008 MFU/100ml
Performance (measurements per day):	Standard 56 (up to 80)
Number of sample intakes:	Standard 2 (more optional)
Housing:	Powder coated aluminum / IP 65
Dimensions W x H x D	55 cm x 50cm x 21 cm
Space for device W x H x D	60 cm x 60cm x 30cm
Weight	17 kg (Industrial Standard)
Power Supply	90 - 264 VAC 150W max. Option 12VDC
Temperature range for operation	0°C to 40°C (extended on demand)

TARGET ORGANISMS

available for Fresh Water | Saline Water



E. COLI
Specific indicator of faecal pollution



ENTEROCOCCI
Specific indicator of faecal pollution



TOTAL ACTIVITY
Bulk parameter of total microbiological activity



DRINKING WATER



INDUSTRIAL WATER



WASTE WATER



SURFACE WATER



MEMBRANE INTEGRITY



Data transfer and visualization:

- Measurements 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 also available through RS232/RS485 or Modbus TCP
- 4 to 20 mA output optional
- Measurement results can be stored to USB Stick directly from the device

Remote Control:

All functions and programming can be performed through remote control (internet or network connection required)

Connection ports:

- Wi-Fi
- LAN
- Internal GPRS/LTE – Modem (option)
- RS232
- USB
- HDMI - output
- Alarm – Relay output or alarm flashlight
- Auto sampler control port (ISCO)



Example of contamination timeline online visualization

Add-on modules:

Sample Delivery Module: Additional module (free programmable) to control sample delivery to the device. The module is able to control pumps and valves to deliver sample to the measurement device.

Autosampler Control Module: for automatically taken samples at contamination peaks (ISCO 6700 autosamplers)

GPS Position Sensor: storing actual geo-position at sampling.

Multisampling Unit: The number of sample intakes can be expanded to 10 samples if needed.



Reagents are available for the following target organisms:

- *E. coli* reagents for fresh and for saline waters
- Enterococci reagents for fresh and for saline waters
- Total Microbiological Activity (ALP)

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.