

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.