

ColiMinder® CMI-02-ERU Emergency Response Unit

ColiMinder® ERU is a fully automated assembled system measuring microbiological contamination of liquid samples, capable and dedicated for mobile use.

- ✓ 15 minutes time to result
- ✓ no sample pretreatment needed
- ✓ self-calibrating and self-cleaning
- ✓ 10 sample intakes
- ✓ turbidity is compensated
- ✓ Internal 4G data modem (data-SIM card required)
- ✓ remote controllable through internet connection
- ✓ online data visualization and automatic notification



TARGET ORGANISMS



E. COLI

Specific indicator of faecal pollution



ENTEROCOCCI

Specific indicator of faecal pollution



TOTAL ACTIVITY

bulk parameter of total microbiological activity

automatic **sample dilution** possible

Up to **100 measurements without intervention**

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

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

ColiMinder ERU Specifications

- ✓ Runs on 12V DC source
- ✓ Solar panels can be directly connected
- ✓ Designed to be operated in a vehicle to analyze samples whilst driving from one sampling site to another
- ✓ Can be used for monitoring applications
- ✓ Easy to move from one place to another without interrupting measurement process
- ✓ Runs up to 15 hours/35 measurements on buffer batteries
- ✓ Assembly on a rack with integrated 10-fold multisampling unit and rinsing water/washing agent/waste tanks



CMI-02-ERU Driving lab unit provides the capability to scan contamination of different sources in a short period of time without losing time out in the field. Each sample is added to the sample module and the ColiMinder measures one after the other while driving from sampling site to sampling site.

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 are 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 3G/4G-Modem
- ✓ RS232
- ✓ USB
- ✓ HDMI - output
- ✓ Auto sampler control port (ISCO)



Example of contamination timeline online visualization

Add-on modules for stationary use:

- ✓ **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.
- ✓ **Auto sampler Control Module:** for automatic samples at contamination peaks (ISCO 6700 autosamplers)
- ✓ **GPS Position Sensor:** storing actual geo-position at sampling.

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 Activity (ALP) – bulk parameter for microbiological activity