

ColiMinder® – Mobile (Emergency Response Unit)

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



COLIMINDER® IS AVAILABLE IN DIFFERENT VERSIONS:

- INDUSTRIAL Standard CMI-02
- Industrial Standard Eco (Low Energy) CMI-02-E
- **Mobile (Emergency Response Unit) CMI-02-M**
- Scientific (for scientific use only) CMS-02

KEY FEATURES

CMI-02-M provides the capability to be used in mobile applications to scan contamination of different sources in a short period of time. Each sample is added to the sampling module and measured one after the other while driving from sampling site to sampling site. It can be moved without interrupting measurement process. Also suitable for fixed monitoring installations.

- ✓ 15 minutes time to result
- ✓ no sample pretreatment is needed
- ✓ fully automated sampling, measurements, cleaning, and calibration
- ✓ ColiMinder Eco assembled on a rack with integrated 10-fold multisampling unit and rinsing water / washing agent / waste tanks
- ✓ Suitable for mobile use (in cars, on a boat ...)
- ✓ results for enzymatic activity, transmission, and intrinsic fluorescence of the sample
- ✓ devices are calibrated to the respective scientific definition of enzymatic activities, results are given in the respective scientifically defined units
- ✓ No hazardous waste or by-products
- ✓ Up to 1.000 measurements without staff intervention

SPECIFICATIONS: MOBILE (EMERGENCY RESPONSE UNIT) CMI-02-M

Measurement time for quantitative results:	15 min.
Full working cycle incl. automatic cleaning:	< 30 min.
Detection Limit (E. coli activity):	0.8 mMFU/100ml
Performance (measurements per day):	Standard 50 (extendable to 80)
Number of sample intakes:	10
Housing:	Powder coated aluminum / IP 65
Dimensions W x H x D	56 cm x 56 cm x 64 cm
Space for device W x H x D	60 cm x 60 cm x 70 cm
Weight	35 kg
Power Supply	12 VDC, solar panels can be connected
Temperature range for operation	0°C to approx. 42°C
Sample volume per measurement	6.5 ml
Measurement range:	< 5000 mMFU/100 ml
Buffer batteries running time:	Up to 15 hours/35 measurements

DATA TRANSFER AND VISUALIZATION, REMOTE CONTROL

Measurement data	Directly transmitted to server through internet or network connection
Data visualization	Available live on dedicated website, results can be downloaded
Measurement results	Available through RS232/RS485 or Modbus TCP/IP (<i>optional</i>) Available through 4 to 20 mA (<i>optional</i>) can be stored to USB Stick directly from the device
Automatic notifications	Error messages, warnings (per e-mail or SMS)
Functions and programming	On-site: through control tablet (included) remote: through VPN connection

CONNECTION PORTS

WIFI
LAN
GPRS/LTE – internal modem
RS232/RS485 (<i>optional</i>)
USB
HDMI output
Alarm – Relay output or alarm flashlight
Autosampler control port for ISCO 6700 series autosamplers (<i>optional</i>)

ADD-ON MODULES

Sample delivery module	The module is able to control pumps and valves to deliver sample to the measurement device.
Autosampler Control Module	for samples automatically taken at contamination peaks (ISCO 6700 series autosamplers)
GPS position sensor	Storage of GPS data of sampling point
Multisampling unit	<i>Included</i>
Depressurization unit	As the ColiMinder needs depressurized sample, this unit is required to reduce pressure of samples from pressurized streams.

REAGENTS 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)
Total Activity for mineral waters



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.