

# ColiMinder<sup>®</sup> – Industrial Standard

ColiMinder<sup>®</sup> is a fully automated system measuring microbiological contamination of liquid samples.

## COLIMINDER<sup>®</sup> 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

- ✓ 15 minutes time to result
- ✓ no sample pretreatment needed
- ✓ fully automated sampling, measurements, cleaning, and calibration
- ✓ 2 sample intakes (more optional)
- ✓ results for enzymatic activity, transmission, and intrinsic fluorescence of the sample
- ✓ 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
- ✓ no hazardous waste or by-products
- ✓ up to 1.000 measurements without staff intervention
- ✓ ColiMinder<sup>®</sup> is able to control ISCO 6700 series auto samplers
- ✓ maintenance requirements: <1 hour/year

## SPECIFICATIONS: INDUSTRIAL STANDARD CMI-02

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:	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 V AC 150W max.
Temperature range for operation	0°C to approx. 42°C
Sample volume per measurement	6.5 ml
Measurement range:	< 5000 mMFU/100 ml

## 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	To extend number of sample intakes to 10.
Depressurization unit	As the ColiMinder needs depressurized sample, this unit is required to reduce pressure of samples from pressurized streams.
Sample Switching Module	To control up to 12 valves for automated switching between different sampling points

## 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.