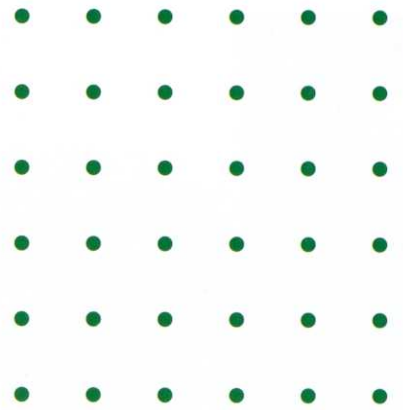


Ecological  
Laboratory



Equipment of this laboratory includes mainly portable measuring instruments designed for rapid analysis of water, air and soil.

## Potentiometry Set



### Measuring pH, oxygen and conductivity

- shock-proof
- water-proof
- reliable



Instrument	PH 197	Oxi 197	LF 197
Measurement ranges	PH: -2.00...+16.00 mV: -1250...+1250 T: -5.0...+99.9°C T: -5.0...+50.0°C	O <sub>2</sub> : 0.00...19.99 mg/l 0.00...90.0 mg/l 0.00...199.9/600% T: -5.0...+99.9°C	0.0 mS/cm...500mS/cm Salt concentration 0.00...70.0
Accuracy	PH: ± 0.01 pH mV: ± 2mV T: ± 0.1 K	O <sub>2</sub> : ± 0.5% v. Messwert v. Messwert	LF: ± 0.5% v. Messwert T: ± 0.1 K
Temperature compensation	(automatic)	(automatic)	(automatic)
Pressure compensation		(automatic)	
Memory unit	50 values	50 values	50 values
Operation time	1500 hrs	600 hrs	150 to 800 hrs
Weight (kg)	1.5 (approx.)	1.5 (approx.)	1.5 (approx.)
Dimensions (mm) (D x W x H)	185 x 230 x 90	185 x 230 x 90	185 x 230 x 90

## Photometry Set



Designed for measuring:



- Nitrate
- Nitrite
- Ammonium
- Phosphorus/phosphate
- Chlorine
- Photodiode array: 12 different wavelengths
- Wavelengths (nm): 340, 410, 445, 500, 525, 550, 565, 605, 620, 665, 690, 820
- Automatic zero adjusting
- Cuvette recognition
- Power supply: accumulators
- Memory unit storing 1000 values with regard to date and time
- Interface RS 232
- Timer
- Dimensions (W x H x D), mm: 260 x 140 x 270
- Weight: 2.3 kg (with accumulators - 2.8 kg)

## Oil Product Traces Analyzer



OCMA-310 is a fast-acting precision IR-photometer allowing to test water and soil samples for hydrocarbons, and, complete with the recovery plant, makes up an excellent tool for ecological monitoring.

- Automatic calibration
- Measurement range: 0 - 200 mg/l
- Memory size: 50 values
- Resolution: 0.1 mg/l for the range 0 - 99.9 mg/l;  
1 mg/l for the range 0 - 200 mg/l
- "Sample/solvent" proportion: 20 ml/10 ml
- Interface: RS 232
- Operating temperature: 0 to 40°C
- Power supply: 100 - 240V/50Hz
- Weight: 7 kg
- Dimensions: (W x H x D), mm: 200 x 342 x 315

## Device for g-Radiation Measuring

This radioscope is designed to measure dosage rate to control water, soil and air load.



- The device is constantly active
- Natural background radiation is indicated
- Battery resource: 12 months
- Multiple thresholds of warning and alarm available
- The device may be standardized officially; it never allows reading until an accurate result is available
- Measurement ranges:
  - A: 0.100 - 9.999 mSv/h
  - B: 1.000 - 99.99 mSv/h
  - C: 0.100 - 999.9 mSv/h
- Power supply: 9V
- Dimensions (W x H x D), mm: 70 x 114 x 35
- Weight: 200 g

## Portable Summing FID



Portable device designed for on-site analysis of soil, water or air samples by using volatile organic compounds; it allows to detect a total of over 1000 organic vapors and gases in the range of 0.1 to 2000 ppm.

- Sensor: FID, 10.6
- Measurement range: 0 - 999.9 ppm (with an accuracy of 0.1 ppm)  
1000 - 1999 ppm (with an accuracy of 1 ppm)
- Metering error: ±2 ppm
- Memory size: 50 values
- Power supply: lead cells, 2 x 6V, 500 mA
- Operation time: 10 h
- Pump: 400 ml/min
- Operating temperature: -10°C to +40°C
- Weight: 0.5 kg

## Dragger Tubes for Gas Measurement



Designed to test air samples for availability of CO, NO, SO<sub>2</sub>, H<sub>2</sub>S, CS<sub>2</sub>, hydrocarbons.



Application:

Construction:

Number of cycles:

Volume:

Dimensions (W x H x D), mm:

Weight, kg:

### Hand-operated pump

Short-run measurements with low count of pumping cycles

Hand-operated bellow pump

1 - 50 and above

100 cm<sup>3</sup> (±5%)

150 x 85 x 50

0.25

### Automatic pump

Short-run measurements with high count of pumping cycles

Microprocessor-operated electric pump (explosion-proof)

1 - 199

100 cm<sup>3</sup> (±5%)

165 x 80 x 62

1.8

## Box-Analyzer

- Sampling under low pressure below 100 hPa (built-in pump)
- Powerful built-in accumulator unit for mains-independent operation
- 3 units with CO measuring cells for different ranges
- Overpressure/underpressure measuring in a gas flue available
- Protective disconnection of CO cell at high concentrations
- User can easily replace worked-out sensors
- High-precision measuring NO/NO<sub>2</sub>
- Wide range of SO<sub>2</sub> measurements
- Weight: 2.8 kg



78080180, 06/04

Specifications subject to change without notice!