

Portable Carbon Dioxide Analyzer

CO2-14

CO2-14 is an automated continuous analyzer that can measure the partial pressure of carbon dioxide (pCO₂) in the sea surface layer and ambient air.

Lightweight - low power consumption with high-precision measurement.

Equilibrator using a gas permeable membrane is also small-portable.

Battery operation is also available.

Two-point calibration for high precision measurement is possible using two standard gases in different concentration. Calibration is done automatically (calibration time: user-settable).

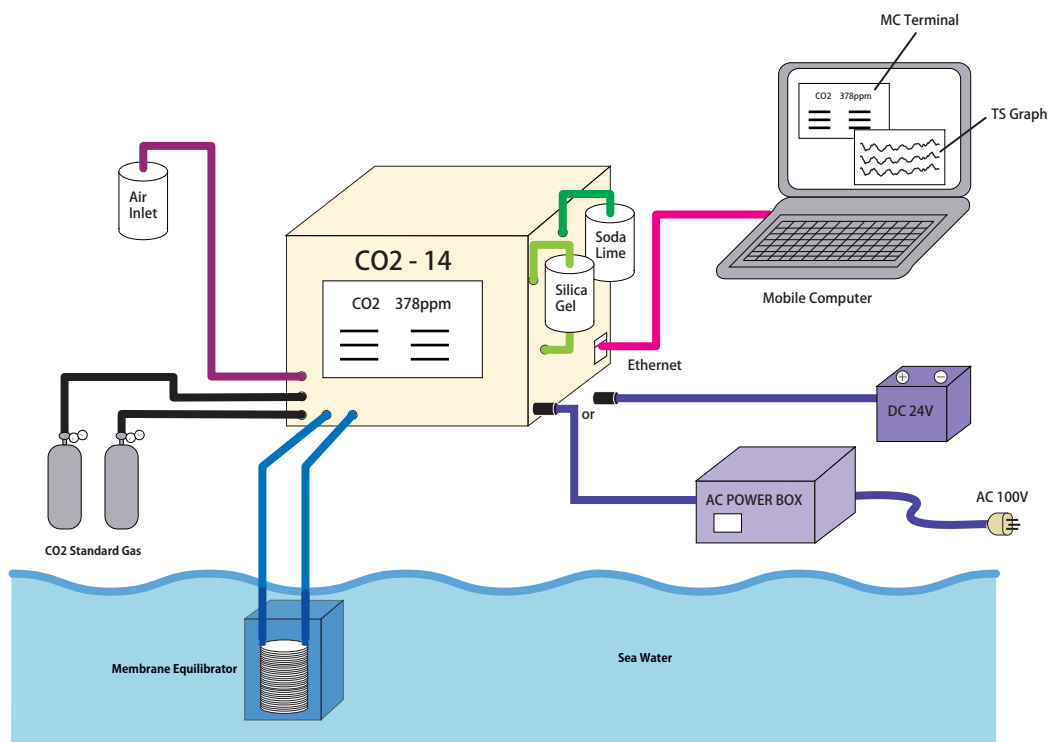
It is available to monitoring the data with a time-series chart using your PC on LAN network.



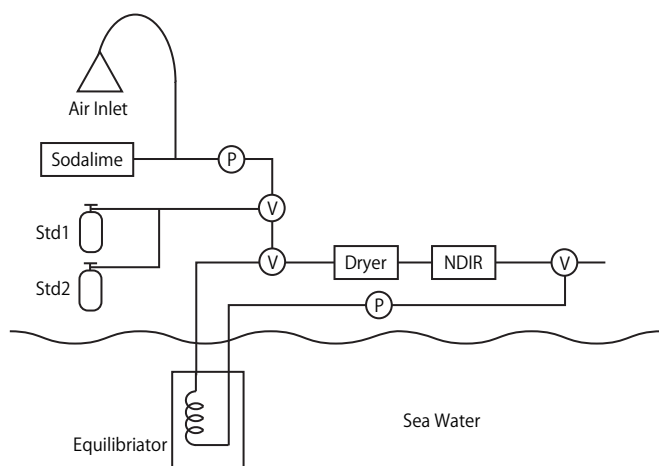
Specifications

- Measurement item: Partial pressure of CO₂ in the seawater and air
- Measurement principle: Non-dispersive infrared absorption (NDIR) method
- Calibration: Two-point calibration with standard gases
- Dehumidification: Semipermeable membrane method
- Power requirements: 12VDC, max. 40W
- Weight: Approx. 17kg
- Equilibrator: Equilibrator using a gas permeable membrane
- Data storage: Embedded memory (256MB)
- Dimensions: Approx. W360 x D360 x H330 mm
- 《 **High precision midel "CO2-14-LI"** 》
- Measurement range: 0 - 20000 ppm
- Repeatability: 1 ppm (by using 370 ppm standard gas)
- Detection resolution: 0.1 ppm
- 《 **Downscale model "CO2-14-SE"** 》
- Measurement range: 0 - 5000 ppm
- Repeatability: 5 ppm (by using 370 ppm standard gas)
- Detection resolution: 1 ppm

Block Diagram



Flow Diagram



CAUTION

*) Operation manual should be read before measuring.

*) To avoid fire, break down and electric shock, do not use this analyzer at the place where beside water, high moisture, dust or oily smoke.



KIMOTO ELECTRIC CO., LTD.

3-1FUNAHASHI-CHO,TENNOJI-KU,OSAKA 543-0024 JAPAN

TEL 06-6768-3401 FAX 06-6764-7040 E-mail:sales@kimoto-electric.co.jp

<http://www.kimoto-electric.co.jp>