

DATASHEET

INTEGRATED SYSTEM

BUOY Eco EMIS 400

Easy and cheap buoy solution for short monitoring campaign

- Compact, lightweight and easy to deploy
- Remote data system
- Alarm via SMS
- Digital field sensors (RS485/SDI12)
- Consultation of the data on Web Sever
- Measurement up to 8 parameters : Temperature, pH, ORP, Oxygen, conductivity, salinity, turbidity...





Eco EMIS 400: Quick and easy solution for water quality monitoring

The **Eco EMIS 400** has been developed by PONSEL to meet requirements of *in situ* water quality monitoring. The **Eco EMIS 400** is a cost effective solution for short campaigns (from few weeks to several months).

Quick and easy to deploy, the **Eco EMIS 400** can be lifted into place by only one person on bridge pilings or piers.

To save unnecessary trips into field and to reduce operating costs, the **Eco EMIS 400** send data on your computer (remote data system inside) with Web server application.

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Datasheet: Eco EMIS 400



Economic solution and easy to use

Quick and easy to deploy

Compact (diameter 40 cm) and lightweight (14 Kg), the **Eco EMIS 400** can easily and quickly deployed into place by only one person from shore or small boat.

The **Eco EMIS 400** can be install near the shore thanks to a very low water depth requirement (< 50 cm).

Remote data and alert by SMS

The data from PONSEL digital sensors are save in the Logger. The data are available on your computer thanks to a remote data transmission.

Digital sensors' range:

The DIGISENS sensors allow to control the parameters : temperature, PH/ORP, Conductivity/salinity, Turbidity and dissolved oxygen.

Robust

Thanks to a 50 years experience in sensor manufacturing, PONSEL provide you a very high quality of

instruments for drinking water, wastewater and all field applications

| | Dimensions | Parameter | r and all field application Range | Accuracy | Measurement Principle |
|------------|--|---------------------|--|------------------------|--|
| pH/ORP/T°C | | Temperature | 0,00 to + 50,00 °C | ± 0,1℃ | CTN Inox |
| | D : 27 mm L : 159 mm W : 350 g (with cable) | рН | 0,00 to 14,00 pH | ± 0,1 | plasticized PONSEL "PLASTOGEL"®. electrolyte Ag/AgCl reference |
| | | ORP | - 1000,0 to + 1000,0 mV | ± 2 mV | Platinum electrode Ag/AgCl reference |
| ОРТОВ | D : 25 mm L : 146 mm W : 450 g (With cable) | Dissolved Oxygen | 0,00 to 20,00 mg/L 0,0 to 200,0 % SAT | ± 0,1 mg/L ± 1 % | PONSEL OPTOD optical luminescence technology ASTM D888 – 05Complinace |
| C4E | D : 27 mm | Conductivity | 0,0t to 200,0 µS/cm 0 to 2 000 µS/cm 0,00 to 20,00 mS/cm 0,0 to 200,0 mS/cm | ± 1 % full range | C4E Technology 4 electrodes (2 platinum and 2 graphite) |
| | L: 177 mm W: 350 g (with cable) | Salinity | 0-60 g/Kg | \pm 0,5 % full range | C4E Technology 4 electrodes (2 platinum and 2 graphite) |
| UTN | D : 27 mm L : 170 mm W : 300 g (with cable) | Turbidity | Range NTU: 0,00 to 50,0 NTU 0,0 to 200,0 NTU 0 to 1000 NTU 0 to 4000 NTU Range 0-4500 mg/L | ± < 5 % full range | IR 90° technology ISO 7027 compliance |



| Technical features | |
|----------------------------|--|
| | |
| FLOTTEUR | |
| Dimensions | Diameter buoy 40 cm |
| Weight | 14 Kg (Full) |
| Material | Polyurétahne – shock resistant |
| Color | Blue |
| | Yellow in option |
| Mooring | With 1 or 3 points |
| Datalogger | |
| Datalogger | Memory capacity 30 000 data |
| Record frequency | 10, 30, 60, 120 s |
| | 5, 10, 15, 30 min |
| | 1, 2, 3, 4 hours |
| | 6, 8, 12 hours |
| Alert SMS /Mails | 4 thresholds by parameter with 4 conditions of crossing. |
| Transmission | - GSM DATA : frequency 1 sending/day |
| | - GPRS towards a Web server and viewable on web page |
| | with access code. Frequency of customizable sending. |
| | - Remote access of the logger |
| Software | Configuration of the logger and the communication |
| Measure unit | - 0 |
| Batteries | 12V/ 17Ah |
| | State of load recorded with the parameters |
| | Possibilty to load the battery by an external connector |
| | whitout opening the buoy |
| Temperature of functioning | - 5 °C to + 50 °C |
| Software | To configure the datalogger and the communication |
| Sensors | Numerical sensors in SDI12 way : |
| | - pH /ORP/T℃ |
| | - Turbidity 0-4000 NTU /FNU |
| | - DO (Optical technology) (ppm, mg/L and %Sat) |
| | - Conductivity/Salinity/TDS |
| | - Temperature |
| Not supplied | - SIM card for transmission GSM DATA/GPRS with internet |
| | acces, |
| | - Line of mooring for installation of the buoy |
| Option | ODEON OPEN ONE for sensor calibration, |
| | , |





