

DATAMAR-3000C Tide Gauge

The DATAMAR-3000C RADAR tide gauge is the ideal solution for measuring, recording and transmission of sea level data, not only for its high performance and advanced technical features, but also for its great versatility and low cost.

The DATAMAR-3000C tide gauge consists only of two main parts:

- 1) The level sensor based on radar technology at 26GHz.
- 2) The Unit of Measure, Record and Data Transmission, Model 3000C.

There is not need to use any computer or local PC, since the tide gauge provides all the elements needed to perform the sampling of the measuring signal, the digitalisation of the signal, the records of the data in its own internal memory of 64 or 128 Mbytes, as well as the elements needed to transmit data in real time or delayed to the Port Authority facilities, and also, to issue the information by Internet.



FEATURES

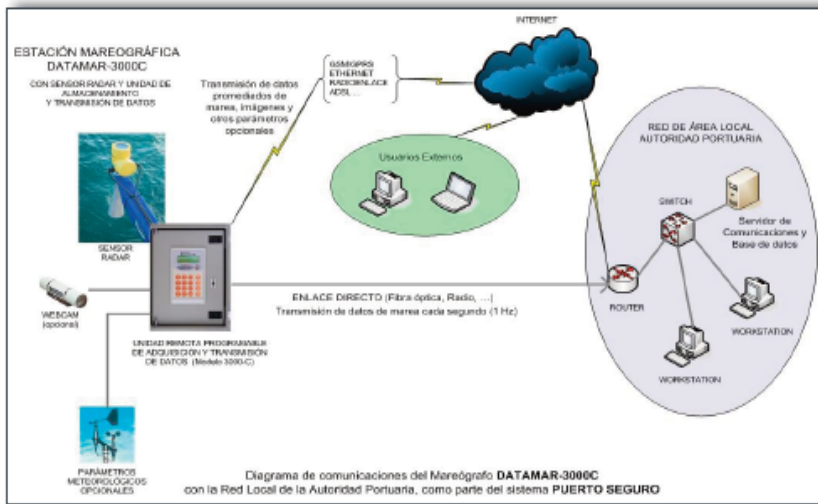
General Features

- Data storage capacity up to 5 months, even registering the raw data of sea level with a frequency of 1Hz.
- Ultra low power consumption (10mA / 12Vdc).
- Compact design.
- IP interface circuit for Internet communications, Ethernet, etc..
- Internal GPS receiver for time synchronization.
- GSM or GPRS internal Modem for data transmission and communications.

DATAMAR-3000C

- Programmable unit for acquisition and processing of data, with internal storage of 128MB RAM and analog to digital A/D converter of 19bits plus sign resolution.
- Alphanumeric LCD Display.
- Integrated membrane keyboard.
- Multiple internal fast connection to all sensors, GSM/GPRS, solar module, mains , etc..
- Electronic circuits with overvoltage protection for all connections.
- Power supply module for the station, sensors and communications equipment, with charger for connection to the mains or photovoltaic solar module.
- IP interface circuit for Internet communications, Ethernet networks, wire-less, etc., for METEODATA Station accessibility through any communication network with TCP / IP protocol.

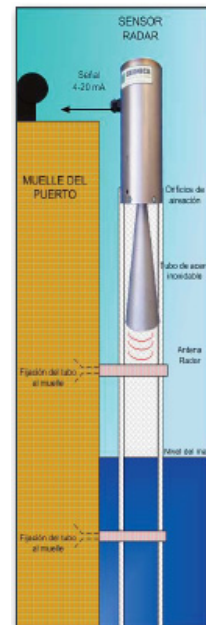
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- Supplied mounted in a metal box (430mm x 330mm x 200mm) with double door IP66.
- Optionally, the assembly can be done in a box or bag made up of a special copolymer, highly resistant, offering IP67 protection.

Technical specifications

- Range: Programmable between 1 to 30m.
- Resolution: 1mm.
- Accuracy: ± 3 mm (individual measures)
 ± 1 mm (average values).
- Width of lobe: 8°.
- Radar Frequency: 26GHz.
- Output: 4-20mA.
- Power supply: 24Vdc (from the unit 3000C).
- Operation temperature: -30 to +80 ° C.



INPUTS / OUTPUTS

- 8 or 16 analog input channels.
- 2 digital microrelay inputs (10 optional).
- 2 digital microrelay outputs (6 optional).
- 4 digital counters of 16-bit (for rain gauges, anemometers and other sensors with pulses outputs).
- Communications Ports:
 - 2 RS232 serial ports, one programmable 422/485.
 - 1 Serial port for developing "firmware" (dedicated).
 - 1 Serial port for PSTN / GSM / GPRS communications (dedicated).
 - 2 additional serial ports (optional) for general purpose (Ethernet, SDI-12; Bluetooth; Wi-Fi, GPS, RS232/422/485).