



Hydro-Meteorological Data Logger (Satellite/GSM/GPRS)



Wind Direction



GPS GSM Antenna



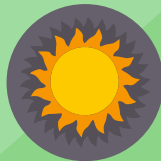
Sun Duration



Humidity



Ethernet



Solar Radiation



Leaf Wetness



Wind Speed



USB



SAT_UHF



GPS



Soil Temperature



Air Temperature



Rain Count



Soil Moisture



Water Level



Atmospheric Pressure

Technical Specifications

Analog Inputs	: 8
Resolution	: 24 bit
Digital Inputs	: 6
RS232	: 2
RS485	: 1
SDI-12	: 1
Sensor supply	: 4
Sleep current	: >2mA
RTC	: 2PPM

Features

Time sync	: GPS
Log storage	: Flash
Log Memory	: 2 Years
Log recovery	: USB
Debug	: RS232 / WiFi / USB
LCD	: 2 x 16
Keypad	: 6 key
GSM / GPRS Interface	
Satellite Transmitter Interface	
LED display Interface (Optional)	

Specifications for Data Logger

Processor and System

Micro Controller	: STM32
Architecture	: 32bit Arm Cortex
Flash Memory	: 256kb
Ram Memory	: 128KB
Speed	: 32MHz
Ext. Data Backup	: USB Memory Stick
Operating Voltage	: 9V to 15Volts DC
Operating Current	: Below 120mA @12V
Quist Current	: 1mA @15V, 2mA @9V
Op. Temperature	: -20° to 60° Degrees
Op. Humidity	: 0 to 100%
LCD Display	: 16x2 Alphanumeric LCD
Key Board	: Six key navigation
Real Time Clock	: ±2ppm
Ext. Data Memory	: 8 GB SD Card

Analog Inputs

Resolution per Channel	: 24 bit
Total Number of Inputs	: 8 Channels
Voltage Inputs	: 8 Channels
4-20mA Inputs	: 2 Channel
Differential Inputs	: 4 Channels
Range Selection	: 1V, ±2.5V and 5V

INSAT Transmitter

UHF Transmitter	: Obel Transmitter
-----------------	--------------------

GSM/GPRS

Network	: Dual/Quad Band (2G/4G)
---------	--------------------------

Ethernet: Built in Ethernet support

Obel Systems Pvt. Ltd.

Registered Office: No. 7, Ground Floor, Jaya Mansion, Parklane, 126, S.D. Road, Secunderabad, Telangana, India 500003

www.obelindia.com

Sales & Service: Plot:106, Amarjyoti Colony, Bhavana Enclave, New Bowenpally, Secunderabad, Telangana, India 500011

+91-40-40202190 | info@obelindia.com

Digital Interface

Counters

Channels	: 2
Range	: 32bit

Frequency

Channels	: 2
Range	: up to 200KHz

SDI-12

Channels	: 1
Maximum Sensors	: 20

UART

RS232 for Sensors	: 1
Rs232 for GSM	: 1
Rs485 for Sensors	: 3

USB

Type	: USB Memory Stick
Format support	: .CSV

Firmware

Embedded-OS firmware

CONNECTORS

System Code Programing	: 5 pin FRC
PC Communication	: USB
GSM Antenna	: SMA
Power Supply	: 2 PIN
INSAT Transmitter	: 9Pin D-sub
Sensors	: Phoenix screw type