

Meteo M&R

data loggers



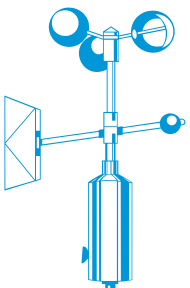
MobiSense data logger

UNIVERSAL DATA LOGGER

SIMPLE & VERSATILE

FOR VARIOUS APPLICATIONS

Measure and control from any location in the world. Human inventiveness is the only limitation for the MobiSense. At any place anywhere, even under rough circumstances, the MobiSense will do the job for you. Build to serve the best.



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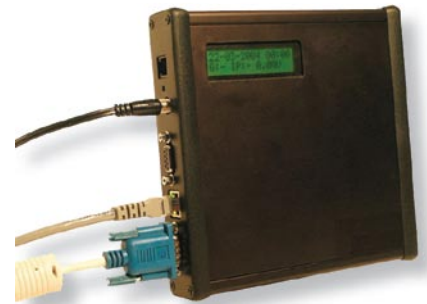
The MobiSense is a mobile system capable of transporting and logging electronic signals commonly used in a measure and control environment, like 4-20 mA, 0-10 Volt, 0-10 KHz and contacts. The MobiSense is built on a universal modular platform. This allows all types of interfaces to connect.

Any combination of differential voltage (up to 24 Bits density), current or pulse is possible. The basic MobiSense is able to accommodate 3 multi channel interfaces. Any combination up to 24 differential

voltage or current inputs in one unit is possible. Optional: 64 in- and outputs and Temperature Pt100 2/ 4 wire or a network based 'one wire'-sensors. (64 per channel up to a total of 4096 sensors).

The collected data is made accessible via common software. The MobiSense has an optional build-in Compact-flash card (up to 2GB) or Micro-drive card. The collected data is stored in the Memory card and can be collected through GPRS, local network or a maintenance port. Sampling can be at a chosen time interval or conditional.

The build-in data-copy and alarm functions of the MobiSense allows you to send information (data or alarms) to more than one receiver via local network, SMS or GPRS messages.



TECHNICAL SPECIFICATIONS

Supply	9..36VDC, Lockable DC-type connector or 90..264 VAC (external power supply)
Power	Operational < 7W, Stand-by < 1W, Sleep < 0.005W
Interfaces	2x RS-232 (V.24) 10MB or 10/100MB UTP Ethernet, RJ-45 connector RS-485, galvanically isolated, RJ-11 connector
User Interface	Remote Telnet Session Ansi Terminal, LCD & optional buttons at MobiSense front
Temperature	Operating -20..+70°C Storage: -40..+90°C
Humidity	RH95%, Non Condensing
Storage	Compact flash data storage up to 2 GB
Communication options	Three band GPRS/GSM (900,1800 en 1900MHz), Internal 3V SIM adapter with SMX connector On board GPS-Receiver with SMX antenna-connector

Printed Circuit Board

Weight	Approx. 200g.
Dimensions	(PCB)160 x 160 x 25 mm (l x w x h)
Enclosure	IP54

Options

Inputs	4 channel 4-20mA, passive, 24 bit resolution 4-20mA, passive or active, galvanically isolated, 12 bit resolution 4 channel -10V +10V, 24 bit resolution 0-10V, galvanically isolated, 12 bit resolution Pulse 0-250KHz 4 contacts output + one input galvanically isolated 4 contacts input + one output galvanically Isolated, protected Pt100 temperature sensors
Outputs	4-20mA, passive or active, 12 bit resolution 4-20mA, galvanically isolated passive or active, 12 bit resolution 0-10V, 12 bit resolution 0-10V, galvanically isolated, 12 bit resolution 3 channel Programmable Excitation 5 to 24 Volt 8 contact outputs TTL-level/OC, galvanically isolated Pulse generator 0-10KHz

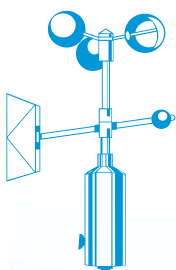
Possible data manipulation:

Available alarm instructions:	higher than, lower than, between, duration.
Available operators on inputs:	power of two, divide, multiply, add, subtract
Available calculations:	standard deviation, average, min value, max value.

The unit can be powered with a 9-36 VDC or a 90-264 VAC line. The MobiSense power consumption is low (however depending on the interfaces used). In many applications the unit will work unattended for months on simple batteries or a solar panel. The MobiSense is mounted in a IP54-enclosure.

The design carries more than 20 years of experience in hard- and software interfacing. The advantage for you as a customer is clear; we are able to act quickly and to provide a new design or to modify an existing design in a short period of time.

made to measure



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