



The **LevelMonitor DAC-Module**, Data Acquisition & Communication Module, is the only minimum hardware required on remote location/site to take advantage of the LevelMonitor Vendor Managed Inventory or Remote Tank Monitoring software platform.

Level readings are taken at remote site using customers field instrumentation or by a LevelMonitor supplied pressure, ultrasonic, capacitance, radar or other level measurement device. A DAC-Module connects this field instrument via landline (PSTN), a GSM/GPRS-network, Mobitex (Benelux only) or satellite to the secure LevelMonitor web-site which is monitored 24 hours a day, 7 days a week.

The system monitors the level or content, level status and provide you with trends and alarms which are send directly to designated personnel by SMS, e-mail and/or pager. The alarm details are available at it's overview page for quick reference and can be confirmed on-line as well as by a SMS message.

Another convenient feature is the forecasting module, which is capable to forecast replenishment of a silo or tank based on historical decrease during the on-line user specified time period.

LevelMonitor provides all the tools for a value-added inventory management service, including integration of the collected data into office business systems like ERP-, MIS- or logistic plan systems.



Product Features:

- Multiple communications options
- Universal power supply
- Solar power suitable
- Internet based access
- Secure protected data
- Historical data available
- Wired, configured & tested supply
- Suitable for all kind of field instrumentation to be monitored

Technical Specifications:

Power Supply:

- 115/230 Vac \pm 15%, 50/60Hz,
- battery and/or solar powered dc-versions and others available on request.

Environmental:

- location: indoor/outdoor
- ambient temperature: 0 to 50°C
- enclosure: RAL 7032 powdercoated sheet steel, IP66 in accordance with EN 60 529/10.91, Type 4X, NEMA 4X.
- dimensions: 380 x 380 x 210 mm (H x W x D)
- indicator (signal lamp) on enclosure-door while DAC-module is powered

Field Instrument Interface:

- multi-drop network port: RS485, Modbus RTU, serial
- configurable I/O: four analogue (0)4 - 20 mA inputs

GSM-Modems:

- dual band GSM modem: EGSM 900 / 1800 MHz, fully compliant with ETSI GSM Phase 2+ standard
- SIM interface: 3 volts SIM cards supported
- Antenna: vandal proof GSM 900/1800MHz, on top of enclosure

GSM-Modems (cont'd):

- Conformity with the Directive 99/5/EEC (Radio Equipment & Telecommunications Terminal Equipment) has been assessed by application of the standards
 - EN60950 (user safety),
 - EN 301 489-1 (Electromagnetic compatibility),
 - EN 301 489-7 (Electromagnetic compatibility),
 - EN 61000-6-2 (Electromagnetic compatibility, industrial immunity),
 - EN 61000-6-3 (Electromagnetic compatibility, residential emission)
 - EN 301 419-1 (Radio spectrum matters),
 - EN 301 420 (Radio spectrum matters).

Approval:

- CE

Optional:

- Landline (PSTN), GPRS, Mobitex (Benelux only) or satellite communications
- Galvanic isolator
- Outdoor/external connected (GSM) antenna
- Expandable analogue & discrete in-/outputs
- Cabinet heating for outdoor purposes

All other model and field level device specifications on request. Specifications are subject to change without notice.