



A **ProcessMonitor DAC-Module**, **Data Acquisition & Communication Module**, is the only minimum hardware required on remote location/site to take advantage of the ProcessMonitor Remote Location Surveillance or Remote Monitoring software platform.

Process variables are measured at remote site using customers (field) instrumentation or sensors. ProcessMonitor can manage for example: pressure, temperature, level, flow, analytical and vibration measurements sensors. Also a combination of these at one location is possible. In short: as long as your instrument, sensor or other equipment has an analog output, you can take advantage of the ProcessMonitor features.

A DAC-Module connects the field instrument(s) via landline (PSTN), a GSM/GPRS-network, Mobitex (Benelux only) or satellite to the secure ProcessMonitor web-site which is monitored 24 hours a day, 7 days a week.

The system monitors the actual value, 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.

ProcessMonitor provides all the tools for a value-added process-, (field)service or inventory management service, including integration of the collected data into back-office 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 DAC-Module/GSMx:

Power Supply:

- 115/230 Vac \pm 15%, 50/60Hz,
- battery 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, NEMA 4X.
- indicator (signal lamp) on enclosure-door while DAC-module is powered
- dimensions: 300 x 300 x 155 mm (H x W x D)
or 380 x 380 x 210 mm (H x W x D)

Field Instrument Interface:

- analog input(s), 0 – 10 Volt or 4 - 20 mA or PT1000, software selectable;
- digital input(s), open contact or 24 Vdc

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(s)
- Outdoor/external connected (GSM) antenna
- Expandable analogue & discrete in-/outputs
- Cabinet heating for outdoor purposes

Other models and field instrumentation on request. Specifications are subject to change without notice.