



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. Process-Monitor 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:

- Universal power supply
- Multiple communications options
- 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/SAT:

Power Supply:

- 115/230 Vac ± 15%, 50/60Hz,
- 9,6 to 30 Vdc, power consumption max. 12 Watt
- power consumption at 12 Vdc:
 - Sleep mode: 0,5 mW
 - Receive (incl. GPS): 2,4W
 - Transmit: 8,7W
- solar powered or others available on request.

Rechargeable Battery Pack (option):

- battery type: Nickel Metal Hydride (NIMH)
- capacity: 1,2 Ah
- discharge temperature: -20 to +60 °C
- optimal discharge temperature: 0 to +45 °C
- permanent charge: +10 to +35°C

Environmental:

- location: indoor/outdoor
- ambient temperature: -20 to 50°C
- enclosure: RAL 7032 powder coated 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:

- 4 analogue inputs, 12 bit ADC, 4-20 mA loop
- 4 digital inputs

Satellite terminal:

- Frequency range
 - transmit: 1626.5 MHz to 1660.5 MHz
 - receive : 1525.0 MHz to 1559.0 MHz
- antenna:
 - antenna dimensions: 112 x 37 mm (diam. x h)
 - cable length: 5 m, other lengths on request
 - cable min. static bend radius 15 mm
 - mounting: on a flat and horizontal surface,
- the equipment is designed, tested and declared to conform to the following European directives:
 - 1999/5/EC (CE mark - R&TTE)
 - [includes directives 89/336/EEC (EMC) and 73/23/EEC (LVD)]
- relevant Standards:
 - EN301 489-20 v1.2.1(2002-11) - EMC Testing
 - EN 60950:2000 - Electrical Safety (R&TTE)
 - ETSI EN 301 426 v1.2.1(2001-10)- Radio Approval

Approval:

- CE

Optional:

- Global Positioning (GPS) simultaneous available
- Landline (PSTN), GSM/GPRS- or Mobitex-network (Benelux only) communications
- Galvanic isolator(s)
- Cabinet heating for outdoor purposes

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