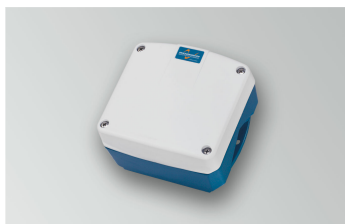
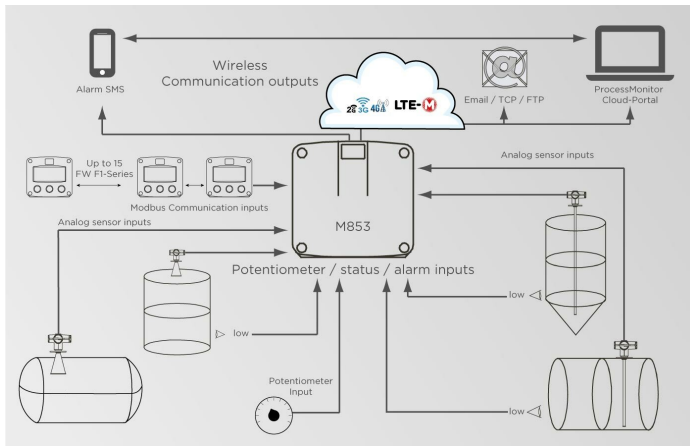


# M85 3

## Data Acquisition & Communication Module

with 4 analog, 3 digital inputs, data logging and communication



### Features

- 2G, 3G or 4G modem communication.
- 8 - 30V DC power supply, battery or solar powered.
- Energy management sensor onboard, accurately calculates the remaining battery lifetime.
- Integrated antenna; no "eye-catchers" to prevent vandalism or abuse.
- Wide operating temperature range -30°C to +75°C.
- Flexible mounting possibilities (wall/panel/pipe).
- Data logging by 4GB micro-SD card, for over 20 million data entries with date and time stamp.

## Product description

**M853 is an ultra-low power "all-in-one" Data Acquisition & Communication Module including datalogging, designed for a wide-range industrial applications. The M853 can be fully configured according to your process requirements. No additional signal converters / amplifiers, encapsulating cabinet or other electrical installation material necessary. Shortly: As long as your sensor, instrument, (field)device or other equipment has an analog output, you can take advantage of ProcessMonitor.**

The M853 is in full compliance with the ProcessMonitor Webportal or ProcessView stand-alone software package for visualization, data history, trend graphics and/or extensive alarming.

### Advantages

- Entirely autonomous monitoring and datalogging solution independent from local infrastructure suitable for off-grid or hard to reach locations using 2G (GPRS), 3G (UMTS) or 4G communications with DC power, battery or solar panel power options.
- Easy and time saving configuration through local USB 2.0 port and bright and clear terminal interface (no code input!) or remotely, even when the M853 has a public, dynamic IP address.
- Flexible freedom in data communication by HTTP, TCP, FTP and/or e-mail. Alerts and alarms by SMS directly from the M853. Extensive alarm capabilities with E-mail and SMS through ProcessMonitor web-portal.
- Universal and versatile applicable for different kind of sensors and instruments through 4

analog, 3 digital status-/pulse inputs and optional ASCII, Modbus RTU and SDI-12 communication protocol.

- Reduce maintenance costs and service time as even the optional internal battery will last for 3 - 8 years.
- Better cause-effect retrieval with increased log interval and alarming when setpoint is triggered.
- Resistant to harsh environments, not a DIN-rail mounted module but an “all-on-board” module in a GRP field mount enclosure IP68 (30 min.@2 meters).

## Applications

- Specially designed for industrial applications using (field) devices and instrumentation to measure level, flow, weight/mass, pressure, temperature, dissolved oxygen, pH, conductivity, vibration, energy/fuel consumption etc.
- Extremely suitable for replenishment purposes or logistic and Supply Chain (SCM) optimization for raw bulk materials including: Remote Silo/Tank Monitoring, Remote Inventory Management, Customer and Vendor Managed Inventory (VMI).

## Product specifications

### Signal Inputs

#### Signal inputs

- 4 (isolated) analog inputs.
- 3 digital status-/pulse inputs.
- 1 potentiometer input.
- Modbus communication protocol (RS485 / RS232).
- SDI-12 communication protocol.

### Supply

#### Power Supply

- 8 - 30V DC adapter, with charger and back-up for 3xAA NiMH batteries.
- Battery powered, 1 x D-Size long-life 3.6V Lithium battery.
- Battery powered, 3 x D-Size long-life 3.6V Lithium batteries.
- Solar powered, with charger and holder for 3xAA NiMH batteries.

#### Sensor Supply

- 12V

### Signal Outputs

#### Data outputs

- GPRS data communication through TCP, FTP and/or email.
- Full control through the web-portal or the ProcessView software.
- Process alarms and system alerts by SMS.

### Hazardous Area

#### Intrinsically Safe

- not applicable

#### Communication

- Operation: Free configurable daily operation time bracket.
- Alarming: SMS to 1 number direct from M853 or extensive alarm capabilities by SMS and Email in combination with the ProcessMonitor Webportal.
- Transmit: HTTP, FTP, Email (SMTP) or TCP (CHAP).

- Modem: 2G / 3G / 4G.



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We're happy to answer any questions about our products and services.  
Just send us an email or give us a call.