

Electromagnetic Flow Meters SMS Logger Server Software

Processes SMS Reports and
logged data from a network of
AquaMaster flow meters



Administers a network of up to 3000

- Large networks can be serviced from a single server application

Processes SMS messages containing Logged Flow, Logged Pressure, Alarm and Totalizer Data

- A single application to process all the SMS data from a network of AquaMaster S units

Intuitive User Interface

- Makes the application easy to configure and easy to use

Integrates with the GPA SMS Gateway

- Compatible with widely-used SMS software packages

Flow, Pressure and Totalizer data forwarded to any ODBC-compliant relational database

- Presents data in whatever format individual customers require

Automatically reflects firmware and SIM card changes in the AquaMaster

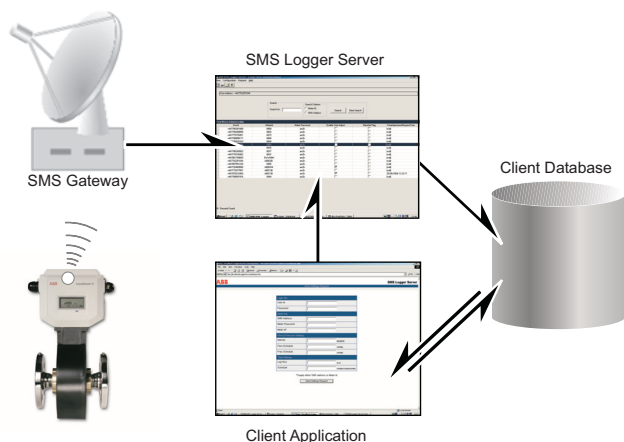
- Automatically detects meters added to the network
- Identifies changes in SIM card meter pairings

Overview

The ABB SMS Logger Server software is an intuitive, user-friendly application that processes data from ABB AquaMaster S flow meters fitted with the SMS logging release of the GSM option (AquaMaster software version 2.40 and above).

Each AquaMaster sends one or more SMS messages to the host SMS Logger Server every day, with each message containing the data for one of the following:

- n Logged Flow Rate
- n Logged Pressure
- n Totalizer



A PC or server running both the ABB SMS Server software and the GPA SMS Gateway receives the messages via a GSM modem. The SMS Gateway forwards the messages to the SMS Logger Server.

The SMS Logger Server can edit many of the AquaMaster's parameters and can also request data from single or multiple AquaMasters.

All the data received by the SMS Logger Server can be forwarded to a client database.

Sample Software Functions

Views

List View

Displays the latest flow, pressure and total records from all the flow meters.

Flow Records

Displays logged flow records for selected AquaMasters.

Pressure Records

Displays logged pressure records for selected AquaMasters.

Total Records

Displays totalizer records for selected AquaMasters.

Configuration

External Database

Populates an existing client database with the data from the AquaMasters. Any ODBC compliant data source is supported.

Advanced settings

Used to configure various settings of the SMS Logger Server, including control of the automatic adjustment off the AquaMaster's real-time clock and setting the IP address of the SMS Gateway software.

External clients

Controls which users have permission to make requests of the flow meters via the web interface.

Text Command Requests

Text command requests can be sent to single or multiple AquaMasters for device information block (DIB) reports, firmware version reports, alarm reports and totalizer reports. They also enable the request for individual parameter values.

System Requirements

Hardware

- CPU: Pentium 3 Processor or better
- Memory: A minimum of 512Mb RAM
- Hard Disk Space: A minimum of 40Gb free space

Operating System

- Windows 2000®
- Windows Server 2003®
- Windows XP®

Software

- .Net framework V1.1
- IIS version 5.0
- Microsoft Message Queuing (MSMQ) components
- GPA SMS Gateway

Screenshots

List View

Flow Value	Time Stamp
2.577508	07/08/2004 10:45:00
2.764292	07/08/2004 11:00:00
2.818432	07/08/2004 11:15:00
2.745343	07/08/2004 11:30:00
2.783241	07/08/2004 11:45:00
2.896935	07/08/2004 12:00:00
2.77512	07/08/2004 12:15:00
2.937541	07/08/2004 12:30:00
2.761585	07/08/2004 12:45:00
2.658718	07/08/2004 13:00:00
2.585629	07/08/2004 13:15:00
2.637062	07/08/2004 13:30:00
2.637062	07/08/2004 13:45:00
2.599164	07/08/2004 14:00:00
2.631648	07/08/2004 14:15:00
2.650597	07/08/2004 14:30:00

Flow Records

Configure External Database



*Supply either SMS address or Meter Id

Web Interface – Send Settings Request

SmsId	MeterId	Meter Password	Enable Time Adjust	Blacklist Flag	TimeAdjustmentRequestTime
+361886361869	36180	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361889390855	36183	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361875735451	361873	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361888898171	36184	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361899626333	361804	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361887567584	36185	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361886245084	36188	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361886245062	36187	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361875735452	361837	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361801799003	3618v04M	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361802251044	361802B	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361887591230	361855	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361820409560	361801M	am2k	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(null)
+361815377801	3618B13B	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)
+361876232464	361812B	am2k	<input checked="" type="checkbox"/>	<input type="checkbox"/>	25/06/2004 12:22:11
+361888897476	363618	am2k	<input type="checkbox"/>	<input type="checkbox"/>	(null)

Administration View

Configure External Clients

Contact us

ABB Limited

Process Automation

Oldends Lane
Stonehouse
Gloucestershire GL10 3TA
UK

Tel: +44 1453 826 661

Fax: +44 1453 829 671

ABB Inc.

Process Automation

125 E. County Line Road
Warminster
PA 18974
USA

Tel: +1 215 674 6000

Fax: +1 215 674 7183

www.abb.com

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