User Guide IM/LM Rev. D

LogMaster Data capture utility





Power and productivity for a better world™

The Company

We are an established world force in the design and manufacture of instrumentation for industrial process control, flow measurement, gas and liquid analysis and environmental applications.

As a part of ABB, a world leader in process automation technology, we offer customers application expertise, service and support worldwide.

We are committed to teamwork, high quality manufacturing, advanced technology and unrivalled service and support.

The quality, accuracy and performance of the Company's products result from over 100 years experience, combined with a continuous program of innovative design and development to incorporate the latest technology.

CONTENTS

1	INTF	ODUCTION 1
2	PRE 2.1 2.2	PARATION
		to a Transmitter
		Comms Ports 2
3	OPE	RATION
	3.1	Starting LogMaster 3
	3.2	The Menus – Overview
		3.2.1 The Drop-Down Menus 3
		3.2.2 Changing Logger Access
		Passwords 4
		3.2.3 The Tool Bar Buttons 5
	3.3	Using the Address Book 6
	3.4	Logger Access 7
		3.4.1 Display Data 8
		3.4.2 Change Flow Units
	3.5	The Status Bar8

1 INTRODUCTION

LogMaster is a data capture utility for retrieving log data and device information from ABB AquaMaster water meters. It currently supports direct connection to the AquaMaster and remote connections via modem (GSM enabled AquaMasters only) or Vodafone Paknet Radiopad (Paknet AquaMaster installations only).

Log data from the AquaMaster can be saved in comma-separated variable (CSV) format for importing into other applications. For example, spreadsheets for graphing purposes.

When requesting log data, LogMaster can be configured to:

- · reset the flow/pressure loggers,
- reset the flow/pressure loggers with a new logging interval,
- synchronize the AquaMaster's time and date with that of the PC.

LogMaster is compatible with Microsoft Windows XP, Windows 7 32bit and Windows 7 64bit.

2 PREPARATION

2.1 Installing the LogMaster Software

Insert the CD and use the Windows software installation facility to load the **LogMaster** program. Follow the on-screen instructions.

2.2 Connecting a Computer to a Transmitter – Fig. 2.1

Refer to Fig. 2.1 for direct connection to the AquaMaster Transmitter. For remote connections, connect a PC comm port to the connection hardware (modem, GSM terminal, radiopad etc).

2.2.1 Configuring the PC Comms Ports

- From Comms drop-down menu (see Section 3.2.1) set the Remote Connection Port comm port setting to which the modem or radiopad is connected.
- 2) Set **Direct & Terminal Mode Port** to the port number to be used for direct connections or in terminal mode.



3 OPERATION

3.1 Starting LogMaster

Select **LogMaster** from the program menu and the Main Menu is displayed. Windows commands and conventions apply. To ensure that all the data can be seen, maximize the window.

3.2 The Menus – Overview

The main menu is structured as illustrated below. The **Tool Bar**, **Dialog Bar** and **Status Bar** may be hidden or displayed using switches in the **View** menu.



3.2.1 The Drop-Down Menus

These contain all of the functions. For convenience, commonly required functions are presented as 'buttons' on the **Tool Bar** – see section 3.2.3 for a descrition of each button.









...3 OPERATION

...3.2.1 The Drop-Down Menus



Note. Terminal Mode Baud Rate should be set to 4800 for direct connections.

3.2.2 Changing Logger Access Passwords



Note. The password is used to access the AquaMaster logger. Needed for logger data or header requests.

3.2.3 The Tool Bar Buttons

The function of each active button is displayed when the pointer rests over it and are further expanded on the **Status Bar**. 'Tool Tips' also pop up by the buttons if the mouse pointer rests over the button for one second.

The function of each relevant button on the Tool Bar is defined below.



...3 OPERATION

3.3 Using the Address Book



Disabled for direct connections.

3.4 Logger Access



Set up the parameters (see below) to suit.



Press OK to retrieve the data. If a prompt for the AquaMaster password is displayed, enter the AquaMaster level 4 password – see also Section 3.2.2 to change passwords.

...3 OPERATION

3.4.1 Display Data

Use the buttons on the Tool Bar (shown below) to display the logger data.



3.4.2 Change Flow Units

Press the down arrow on the Dialog Bar and select from the drop-down list.

🤓 LogMaster Data Capture Utility				
<u>File E</u> dit <u>V</u> iew <u>A</u> ctions <u>C</u> omms <u>H</u> elp				
🗉 🎗 🖻 🖻 🥵 🗇 🌋 🖢 👆 着 🏄				
Wew Connection (DIRECT) 💽 Units:	Vhr 💽 🄇			
	//hr ▲ MLD m^3/s m^3/m m^3/h m^3/d Gal/s Gal/h MGD tr^3/s tr^3/n tr^3/hr Ugal/n Ugal/hr Ugal/hr Ugal/hr			

3.5 The Status Bar



Products and customer support

Automation Systems

- For the following industries:
- Chemical & Pharmaceutical
- Food & Beverage
- Manufacturing
- Metals and Minerals
- Oil, Gas & Petrochemical
- Pulp and Paper

Drives and Motors

- AC and 6 Drives, AC and DC Machines, AC Motors to 1kV
- Drive Systems
- Force Measurement
- Servo Drives

Controllers & Recorders

- Single and Multi-loop Controllers
- Circular Chart and Strip Chart Recorders
- Paperless Recorders
- Process Indicators

Flexible Automation

- Industrial Robots and Robot Systems

Flow Measurement

- Electromagnetic Flowmeters
- Mass Flowmeters
- Turbine Flowmeters
- Wedge Flow Elements

Marine Systems & Turbochargers

- Electrical Systems
- Marine Equipment
- Offshore Retrofit and Refurbishment

Process Analytics

- Process Gas Analysis
- Systems Integration

Transmitters

- Pressure
- Temperature
- Level
- Interface Modules

Valves, Actuators and Positioners

- Control Valves
- Actuators
- Positioners

Water, Gas & Industrial Analytics Instrumentation

- pH, Conductivity and Dissolved Oxygen Transmitters and Sensors
- Ammonia, Nitrate, Phosphate, Silica, Sodium, Chloride, Fluoride, Dissolved Oxygen and Hydrazine Analyzers
- Zirconia Oxygen Analyzers, Katharometers, Hydrogen Purity and Purge-gas Monitors, Thermal Conductivity

Customer support

We provide a comprehensive after sales service via a Worldwide Service Organization. Contact one of the following offices for details on your nearest Service and Repair Centre.

UK

ABB Limited Tel: +44 (0)1453 826661 Fax: +44 (0)1453 829671

USA

ABB Inc. Tel: +1 215 674 6000 Fax: +1 215 674 7183

Client Warranty

Prior to installation, the equipment referred to in this manual must be stored in a clean, dry environment, in accordance with the Company's published specification.

Periodic checks must be made on the equipment's condition. In the event of a failure under warranty, the following documentation must be provided as substantiation:

- A listing evidencing process operation and alarm logs at time of failure.
- Copies of all storage, installation, operating and maintenance records relating to the alleged faulty unit.

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

Note

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB.

Copyright© 2014 ABB All rights reserved

Microsoft is a registered trademark of Microsoft Corporation in the United States and / or other countries. Modbus is a registered trademark of the Modbus-IDA organization. HART is a registered trademark of the HART Communication Foundation.



