LogMaster **Instruction Manual**

Data Capture Utility

ABB

ABB AUTOMATION

The Company

ABB Automation is 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.

The NAMAS Calibration Laboratory (No. 0255) is just one of ten flow calibration plants operated by the Company, and is indicative of ABB Automation's dedication to quality and accuracy.

BS EN ISO 9001

Cert. No. Q5907

EN 29001 (ISO 9001)

Lenno, Italy – Cert. No. 9/90A

Stonehouse, U.K.

Use of Instructions

Warning.
An instruction that draws attention to the risk of injury or death.

Caution.
An instruction that draws attention to the risk of damage to the product, process or surroundings.

Note.
Clarification of an instruction or additional information.

Information.
Further reference for more detailed information or technical details.

Although **Warning** hazards are related to personal injury, and **Caution** hazards are associated with equipment or property damage, it must be understood that operation of damaged equipment could, under certain operational conditions, result in degraded process system performance leading to personal injury or death. Therefore, comply fully with all **Warning** and **Caution** notices.

Information in this manual is intended only to assist our customers in the efficient operation of our equipment. Use of this manual for any other purpose is specifically prohibited and its contents are not to be reproduced in full or part without prior approval of Marketing Communications Department, ABB Automation.

Health and Safety

To ensure that our products are safe and without risk to health, the following points must be noted:

1. The relevant sections of these instructions must be read carefully before proceeding.

2. Warning labels on containers and packages must be observed.

3. Installation, operation, maintenance and servicing must only be carried out by suitably trained personnel and in accordance with the information given.

4. Normal safety precautions must be taken to avoid the possibility of an accident occurring when operating in conditions of high pressure and/or temperature.

5. Chemicals must be stored away from heat, protected from temperature extremes and powders kept dry. Normal safe handling procedures must be used.

6. When disposing of chemicals ensure that no two chemicals are mixed.

Safety advice concerning the use of the equipment described in this manual or any relevant hazard data sheets (where applicable) may be obtained from the Company address on the back cover, together with servicing and spares information.

CONTENTS

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 or remote connection via Vodafone Radiopad (Paknet).

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 Windows 98™ and NT™.

2 PREPARATION

2.1 Installing the LogMaster Software

Insert the floppy disc 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. If connection is via a Paknet Radiopad, connect the the radiopad to a suitably configured 'comms' port on the PC using a modem cable.

2.2.1 Configuring the PC Comms Ports

1) From **Comms** drop-down menu (see Section 3.2.1) set **Paknet Port** to the comm port to which the Paknet radiopad is/will be connected.
2) Set **Direct Port** to the port number to be used for direct connections, or in terminal mode.

Metal AquaMaster Transmitter

Plastic AquaMaster Transmitter

Original Style
(requires Laplink
Lead - supplied)

Current Style

ABB Part No.
WEBC2000

9-pin female plug
connected to serial data
socket on PDA or PC

Fig. 2.1 Connecting PC to Transmitter
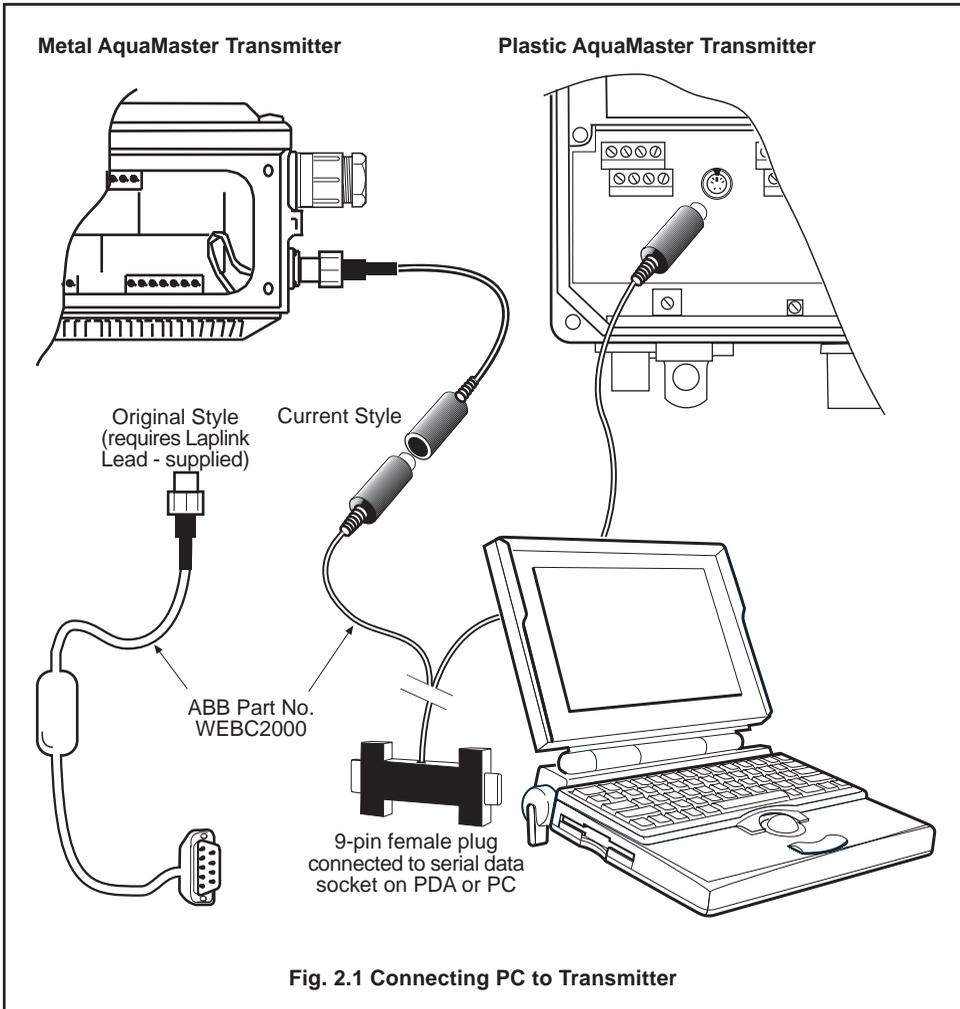
3   OPERATION

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.
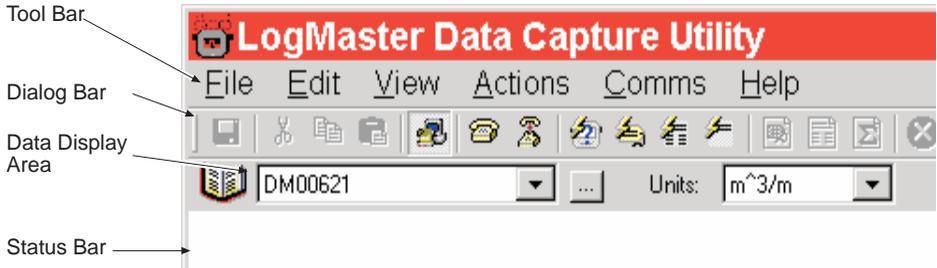
3.2.1   The Drop-Down Menus
These contain all of the functions. For convenience, commonly required functions are presented as 'buttons' on the **Tool Bar** – see section 3.2.3 for a descrition of each button.
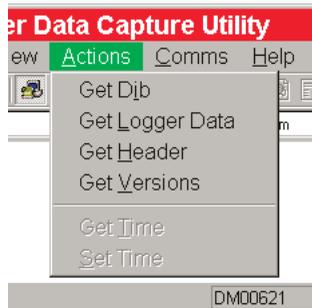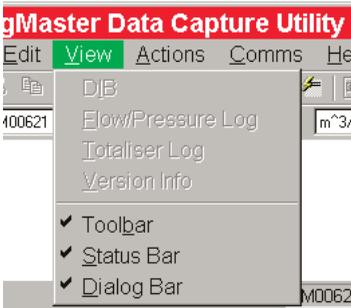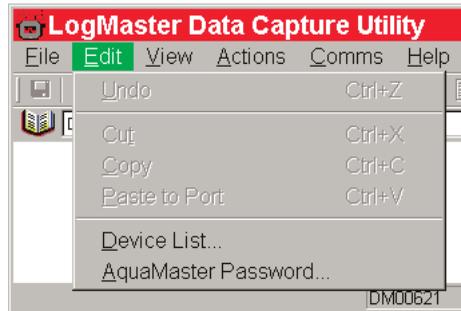
…3.2.1   The Drop-Down Menus
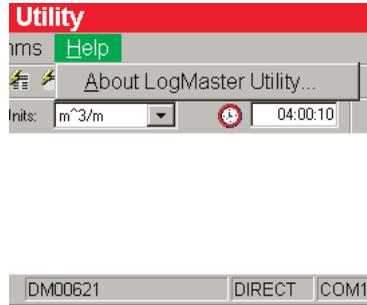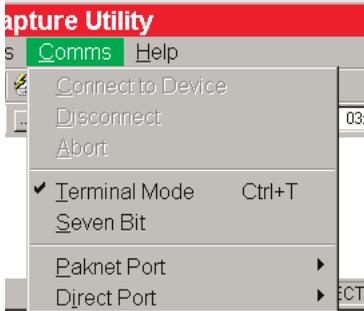
3.2.2   Changing Logger Access Passwords
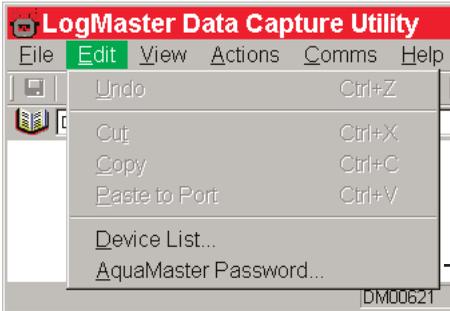
16 characters maximum

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.

Press to cut connection (hang up). This can be done at any time except during a request.

Press to get and display current system AquaMaster version.

Press to get logger data. This feature is password protected. Time span or Record Serial Number (RSN) range is achieved by setting parameters in the displayed menu – see 3.4.

Press to activate terminal mode. This locks open a channel to an allocated comms port. Connection timer also starts. There is now direct access to the AquaMaster menu handling system if connected directly. For Radiopad communication, manually enter the site's NUA, or press dial button if the site is selected in the **Site** window.

Press to dial and connect to a previously defined site (Radiopad). Only available if a Paknet site (see section 3.3.1) is displayed in the site box.

Press to get and display DIB = Device Information Block.

Press to get and display logger header data only. This feature is password protected. Choose an appropriate logger, 1, 2 or 3, from the displayed menu.

Press to display stored DIB from previous use of DIB button.

Press to display stored data from previous use of Logger button.

Press for Totalizer.

Press to stop current request.

Display LogMaster information.

3.3   Using the Address Book

(Radiopad communications only)

①

LogMaster Data Capture Utility

File   Edit   View   Actions   Comms   Help

DM00621   Units: m^3/m

Press to select from drop-down list of sites   Press for Locations Editor (see 2 below)

②

Locations Editor

Location	Site ID	Comms	NUA
DM710	DM710	PAKNET	23533900300244
DM00759	DM00759	PAKNET	23533900295136
My Bench (Paknet)	Simons Bench	PAKNET	23533900270079
DM00628	DM00628	PAKNET	23533900309988
DM00627	DM00627	PAKNET	23533900309110
DM00626	DM00626	PAKNET	23533900302120
DM00624	DM00624	PAKNET	23533900309136
DM00623	DM00623	PAKNET	23533900309116
DM00622	DM00622	PAKNET	23533900310000
DM00621	DM00621	PAKNET	23533900309996
DM04839_2	DM04839	PAKNET	23533900290472
My Bench	.	COM	
QA Office end	.	PAKNET	23537500270079

Press to remove an existing site address

Press for Insert New Location

Insert   Remove   Modify   Cancel   OK

Press to modify existing entry details

③ Enter details in each of the fields as required.

Insert New Location

Location [   ]   Done

Site ID   [   ]   Cancel

Paknet ☑

Nua [23533900]   Insert

32 characters maximum

NUA is the radiopad number to be dialed, e.g. 2353 3900 261306

'Tick' if connection to this site is to be via Radiopad (Paknet).

6

3.4   Logger Access

Capture Utility
ons   Comms   Help

Press ————

Units: m^3/m
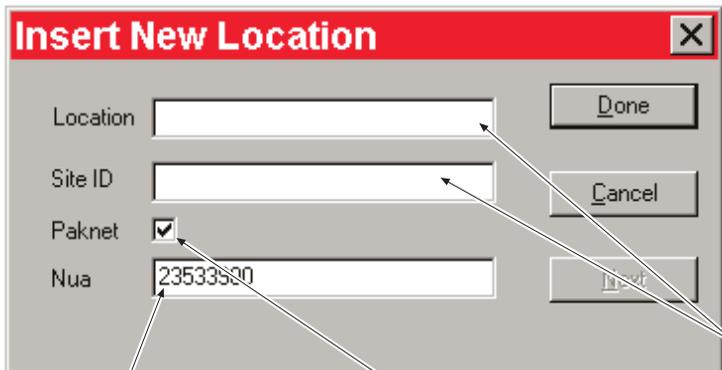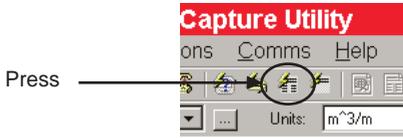
Set up the parameters (see below) to suit.

Time synchronization with the PC.
Select: **Before, After, None**

Select the logger to: **1, 2** or **3**
Loggers 1 and 2 are flow/pressure loggers.
Logger 3 is the Totalizer log.

Before means synchronize before download
After means synchronize after download
None means no time synchronization.

Select method of data
collection.
This function is disabled
if **Last** or **All Data** is
selected below.

Get Log Data   ×

Retrieve Data
Logger No: 1   ▼

OK

Cancel

Set up date/time range.
Point to highlight
date/time elements for
changing.
If **RSN*** is selected,
then these will be the
start/end RSN.

⦿ By Date   ○ By RSN

From:
02/02/01 13 36:02 ÷

Adjust Clock
None

To:
02/02/01 11:36:02 ÷

If you want the
previous hours only,
✔ this box and
specify how many.
Disabled if **All Data**
selected below.

Note: time range relates to
AquaMaster time.

**Logger
☑ Reset

☐ New Settings

☑ Last: 1 ÷ Hours

600 ÷ secs

☐ All Data

✔ to retrieve all
data in selected
logger.

New logging interval
after logger reset.
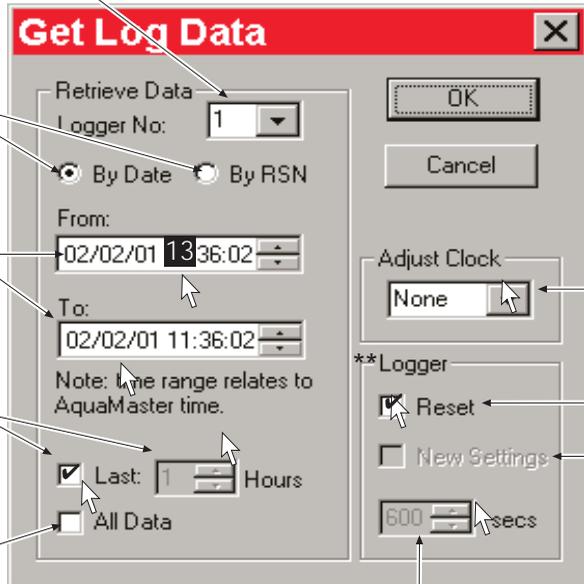
*   RSN is the **R**ecord **S**erial **N**umber
    which is unique to each log entry.

** Unavailable if logger 3 is selected.

✔ to apply new
settings after logger
reset.

✔ to reset the logger - this
deletes all logger records.

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.

3.4.1   Display Data

Use the buttons on the **Tool Bar** (shown below) to display the logger data.
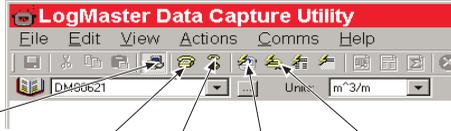
Press to display stored DIB from previous use of DIB button.

Press to display stored data from previous use of Logger button.

Press for Totalizer.

Press to stop current request.

Display LogMaster information.

3.4.2   Change Flow Units

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

3.5   The Status Bar

Current activity

Site ID

Current port

Activity progress

Communication method
Direct or Radiopad (Paknet)

If Radiopad, NUA is displayed
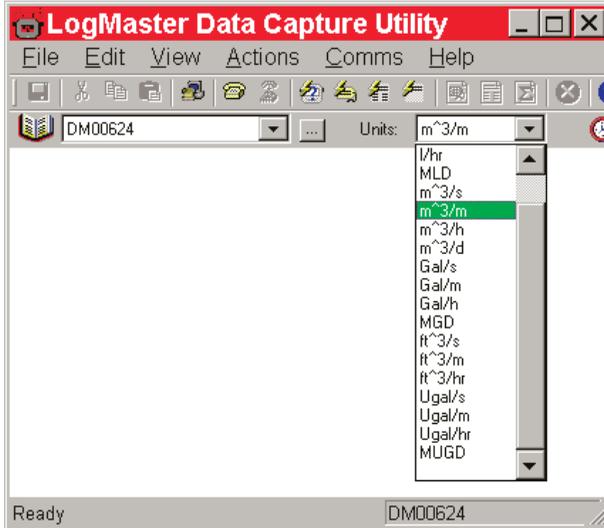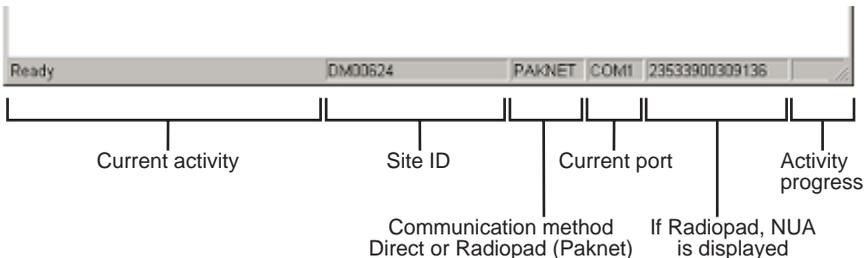
PRODUCTS & CUSTOMER SUPPORT

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- *for the following industries:*
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  - Manufacturing
  - Metals and Minerals
  - Oil, Gas & Petrochemical
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- *Force Measurement*
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- *Circular Chart , Strip Chart and Paperless Recorders*
- *Paperless Recorders*
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- *Temperature*
- *Level*
- *Interface Modules*

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- *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

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

United Kingdom
ABB Automation Limited
Tel: +44 (0)1453 826 661
Fax: +44 (0)1453 827 856

United States of America
ABB Automation 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:

1. A listing evidencing process operation and alarm logs at time of failure.

2. Copies of operating and maintenance records relating to the alleged faulty unit.

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