



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.

The UKAS Calibration Laboratory No. 0255 is just one of the ten flow calibration plants operated by the Company and is indicative of our dedication to quality and accuracy.

EN ISO 9001:2000



Cert. No. Q 05907

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.



Note.

Clarification of an instruction or additional information.



Caution.

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



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 the Marketing Communications Department.

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.

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1 INTRODUCTION

The items in the following lists may be obtained from the Company, by quoting the relative Part Number.

2 ACCESSORIES AND SPARES

2.1 MagMaster

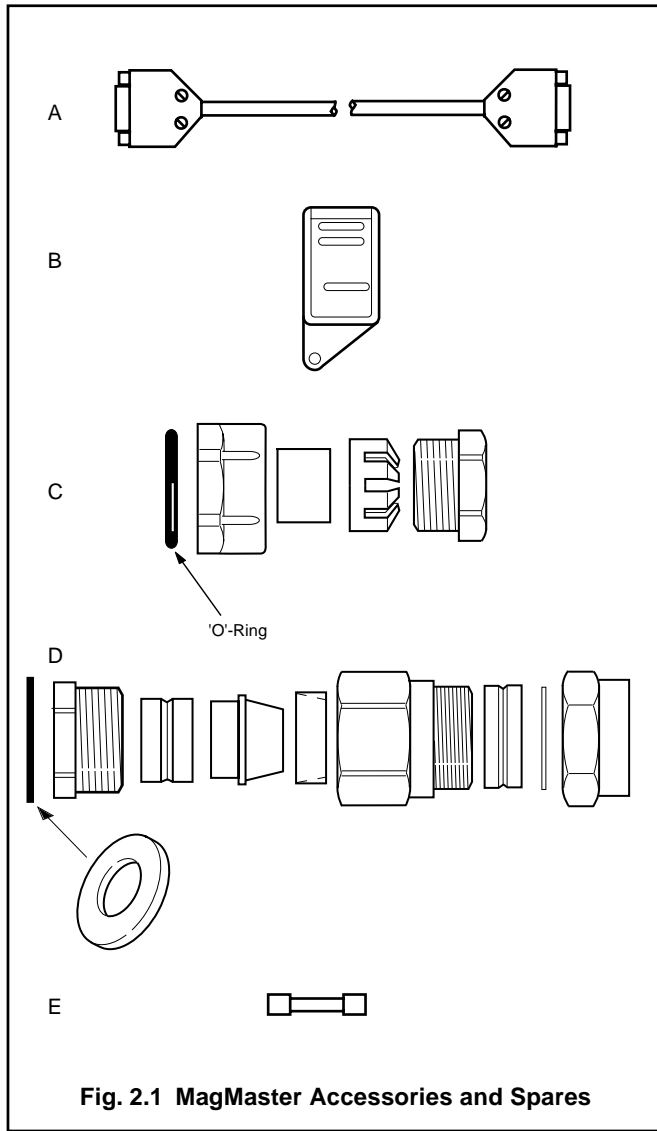


Fig. 2.1

A	Serial Data Lead (MagMaster to PC & Toshiba.)	WEBC 0003
B	Display Operating Wand	MEBX 9902
C	M20 Plastic Gland (with fittings)	MUFA 9912
D	Armoured Gland (with fittings)	MUFA 9913
E	Fuses (see Table 2.1)	
F	HART Command Summary Information	MEFD 0001

Fig. 2.2

A	Sensor Cable Junction Box (M20 fitting)	WABX 0020
B	Sensor Cable Junction Box (1/2" NPT fitting)	WABX 0021
C	250g Potting Compound (Standard)	0218474
	(Hazardous Area – 2 Packs Required).	
D	Transmitter Terminal Cover (Remote Version)	MEAX 9916
E	Transmitter Terminal Cover (Integral Version)	MEAX 9915
F	Transmitter Terminal Cover Seal	MEAX 9924
G	Gasket (Hygienic Flowmeter)	see Table 2.2
H	Standard Sensor Cable	Call Sales Office.
J	Armoured Sensor Cable	Call Sales Office.

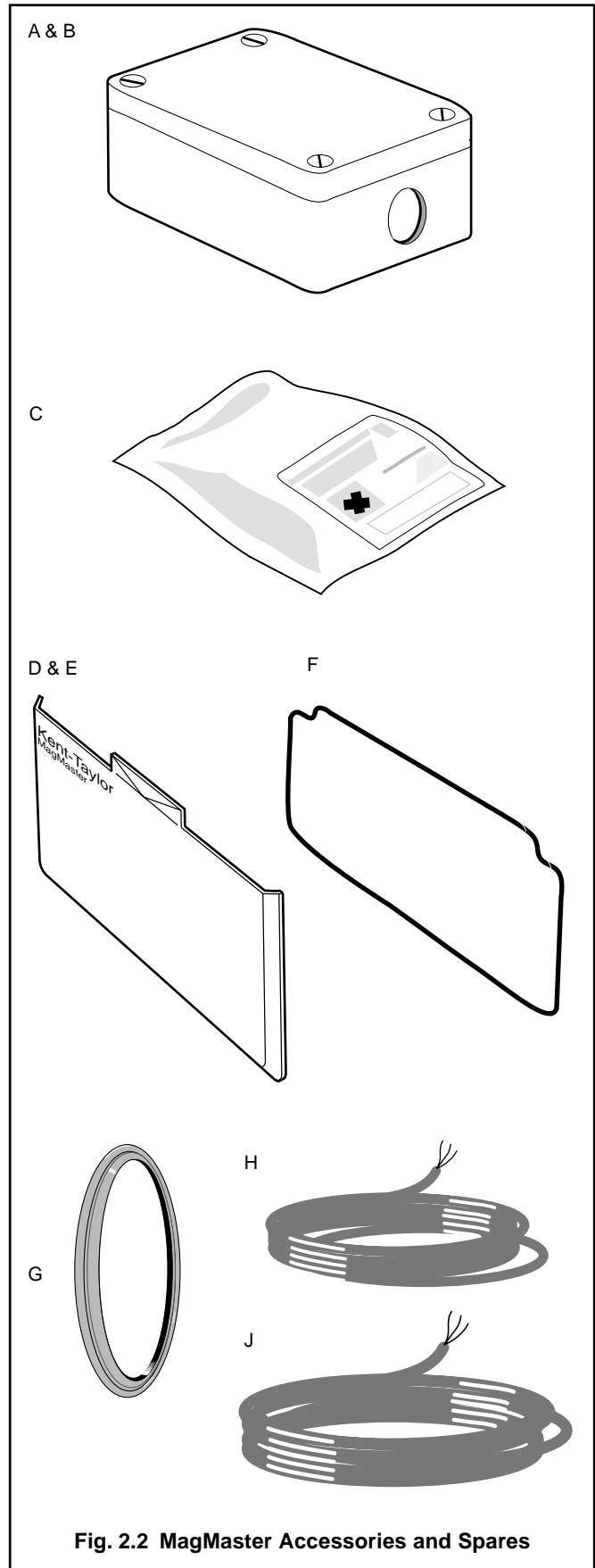


Table 2.1 Fuses

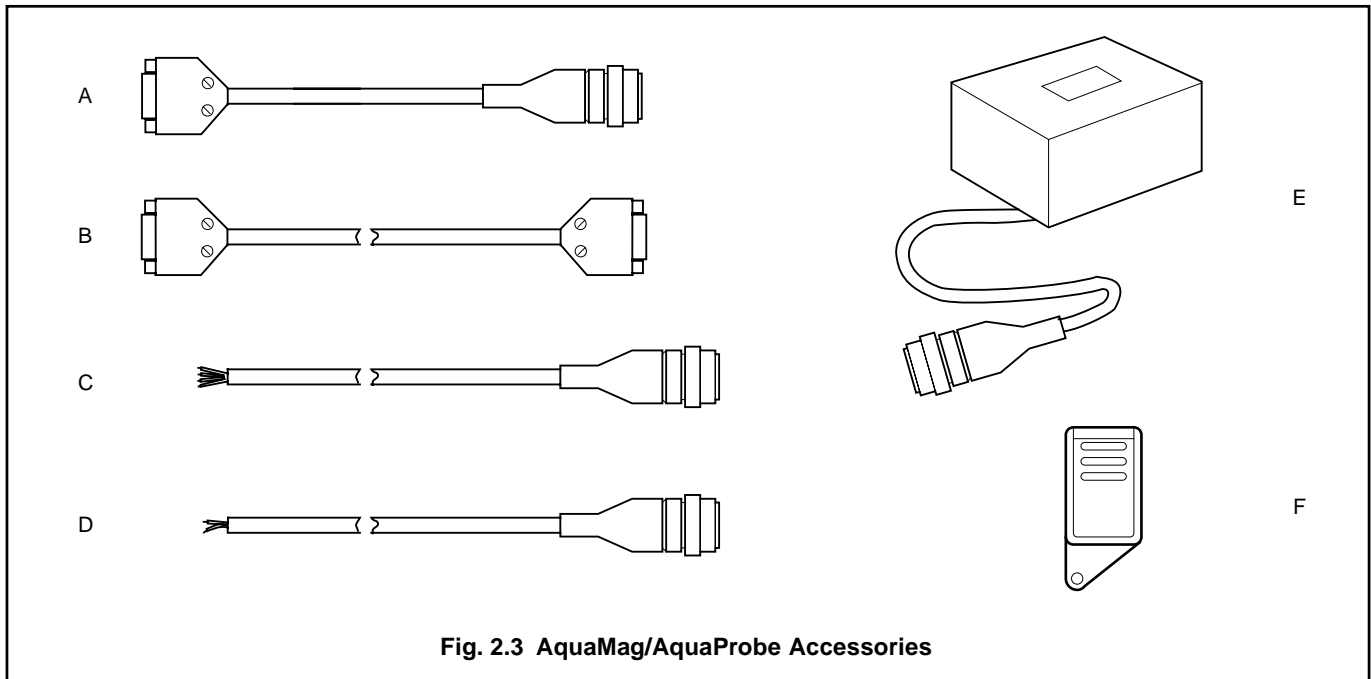
Component Ref.	Part No.	Description	Supplier	Approvals	
				IEC	BS
F1 - DC	B6490	FUSE 3.15A AS.T 20mm	SHURTER 034-3122	IEC 127/111	BS4265
			BUSSMAN S506/3.15A	IEC 127/111	UL. BS4265
F1 - AC	B7721	FUSE 500mA AS.T 20mm	SHURTER 034-3114	IEC 127/111	BS4265
			BUSSMAN S504/500MA	IEC 127/111	UL. BS4265
			BUSSMAN S506/500MA	IEC 127/111	UL. BS4265

Table 2.2 Gaskets (for Hygienic Flowmeters)

Meter Size	Part No.	
	EPDM	Nitrile Rubber
20mm (0.75in)	MRAX2708	MRAX2708
25mm (1in)		
40mm (1.5in)	MRAX2711	MRAX2811
50mm (2in)	MRAX2712	MRAX2812
65mm (2.5in)	MRAX2713	MRAX2813
80mm (3in)	MRAX2714	MRAX2814

...2 ACCESSORIES AND SPARES

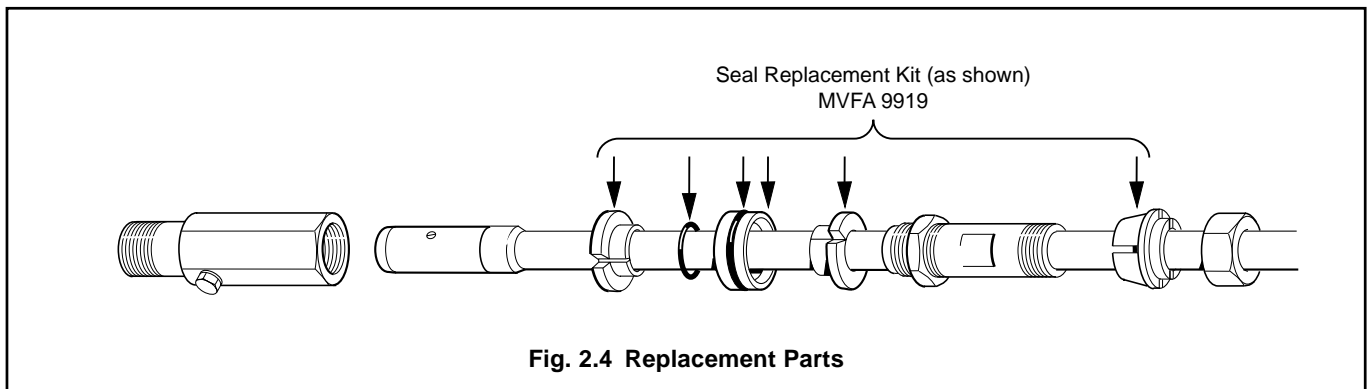
2.2 AquaMag and AquaProbe



- A Communication adaptor (to connect to Psion Organiser etc.)
- B Serial Data Lead (to connect PC to 'A' above)
- C Output Cable Assembly (14-core plus screen)
- D Power Supply Lead
- E Battery Pack
- F Display Operating Wand

WEBC 0004
WEBC 0003
MVBX 99147
STT 3162
STT 3310
MEBX 9902

2.2.1 AquaProbe Replacement Parts



PRODUCTS & CUSTOMER SUPPORT

Products

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 DC Drives, AC and DC Machines, AC motors to 1kV*
- *Drive systems*
- *Force Measurement*
- *Servo Drives*

Controllers & Recorders

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

Flexible Automation

- *Industrial Robots and Robot Systems*

Flow Measurement

- *Electromagnetic Flowmeters*
- *Mass Flow Meters*
- *Turbine Flowmeters*
- *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.

United Kingdom

ABB Limited
Tel: +44 (0)1453 826661
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United States of America

ABB Inc.
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Fax: +1 (0) 755 883 4373

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 all storage, installation, operating and maintenance records relating to the alleged faulty unit.

ABB has Sales & Customer Support
expertise in over 100 countries worldwide

www.abb.com

The Company's policy is one of continuous product
improvement and the right is reserved to modify the
information contained herein without notice.

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