



## WABC2033

Standard battery module for ABB AquaMaster 3 electromagnetic flowmeters. Designed in partnership with ABB.

Designed, developed and manufactured in the UK, Steatite Ltd Flowmeter Batteries use proven lithium battery technology to offer extended life batteries suitable for long-term deployments with a low total cost of ownership.

Battery Details		<b>NB:</b> Design life is dependant on usage and environment. Elevated temperatures will shorten battery life.	
Pack	Alkaline	Cell	Alkaline D Cell
Design Life <sup>1</sup>	Standard	Commodity Code	85061011
UN38.3 TI-T8 Tested	Not applicable	UN Number	Not applicable
Lithium Metal Content	0g	Dangerous Goods Class	Not applicable
Packing Group	Not applicable	Labelling	ABB WABC2033 Label
Country of Origin	United Kingdom		

Mechanical Details		<b>NB:</b> All dimensions and weights are nominal. Steatite Ltd Flowmeter Batteries are designed with a protective case and polyurethane filled enclosure intended to protect the pack against dust and water ingress. Care must be taken to protect the battery, cable and terminals.	
Length	147mm	Leads	1000mm
Depth	68mm	Connector	Souriau or Bulgin
Height	138mm	Case	Grey Plastic Case
Weight	2.9kg	Encapsulation	Polyurethane
Dust Protection	Dust-tight	Liquid Protection	Protected against immersion

Electrical Details	Unit	Nominal	Minimum	Maximum
Charge Current	mA	500		3000
Charge Voltage	V	2.4 / 4.8		
Charging Temperature	°C	25°C	-20	+60

Protection Devices		<b>NB:</b> These devices are designed to protect the pack in event of failure or abuse. Steatite Ltd Flowmeter Batteries use non-rechargeable lithium batteries. Do not attempt to charge. Do not short circuit battery terminals. Polyswitch devices act as a self-resetting fuse.	
PCM Part No.		Polyswitch	RGE300
Fuse	None	Bypass Diode	1N5817
Thermal Fuse	None	Reverse Current Protection Diod	1N5817





**Outline safety warning: Use only within the allowed parameters.**

Do not short circuit the battery. Only use with ABB Flowmeter 3 equipment and in line with Flowmeter 3 instructions. Do not heat. Do not use above maximum temperatures indicated. Never crush, mutilate, puncture or abuse the battery. Do not dismantle the pack or disable any of the protective devices.



**Do not link packs in series or parallel.**



**Do not use the battery if you suspect it may be faulty or damaged.**



**Do not attempt to charge the battery.**



**You should also consult the following documents:**

1. Tadiran SL2780 Cell Datasheet.
2. Material Safety Datasheet.

**Storage:** Cell level testing indicates a capacity loss of approx. 2% per year in nominal storage conditions. Elevated temperatures will increase capacity loss. Batteries must be stored in a cool, dry area out of direct sunshine. Prolonged storage at high temperatures will shorten battery life.

**New transport regulations affecting lithium, lithium-ion and/or lithium polymer batteries came into force during 2003 and 2004.**

These regulations require that all lithium, lithium-ion and lithium polymer cells and batteries must pass a number of UN tests before they may be transported by road, rail, sea or air. In addition lithium, lithium-ion and lithium polymer cells and batteries containing

more than certain limits of lithium or "lithium equivalence" must be shipped as Class 9 hazardous goods. For cells and batteries containing lithium metal the classification is UN3090. Batteries below these limits may be transported as non-hazardous. There are certain exceptions.

**Disclaimer:** We do not claim to be experts in regard to transport regulations, shipping, packing etc. Users and prospective users of lithium, lithium-ion and/or lithium polymer cells and/or battery packs should consult a qualified person for definitive information, e.g. a Dangerous Goods Safety Advisor. Steatite Ltd, its owners, directors, employees and servants cannot accept any responsibility for the accuracy of the above information.

**1** Design life is dependent on usage and environment. Elevated temperatures will shorten battery life.

**2** The battery may need to be de-rated at high and low temperatures. In particular, low temperatures will lower voltage response. High temperatures will increase self discharge and reduce battery life. See Tadiran SL2780 Data Sheet for further information.



**WABC2033\_Datasheet\_V01.pdf**

Technical specifications are subject to change without notice.  
E & OE Issue A.

