



# WABC2101

The 5-year battery, fitted in small-form factor case, 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		N.B: Design life is dependant on usage and environment. Elevated temperatures will shorten battery life.	
Pack	5 Year (Lithium)	Cell	Tadiran SL2780
Design Life <sup>1</sup>	Extended - 5 Years	Commodity Code	85065010
UN38.3 TI-T8 Tested	Yes	UN Number	UN3091
Lithium Metal Content	20g	Dangerous Goods Class	Class 9
Packing Group	Group 2	Labelling	ABB WABC2101 label
Country of Origin	United Kingdom	Temperature Marking	Laser Etched

NB: Actual voltage and capacity in use will be affected by various factors, including temperature, discharge rate, charge rate and method (if applicable), end point voltage, history (e.g. past use, storage) etc.

Mechanical Details		N.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	154.5mm	Leads	1000mm
Depth	39mm	Connector	Souriau UTS6JC8E4P
Height	72mm	Case	Black Plastic Case
Weight	0.7kg	Encapsulation	Polyurethane
Dust Protection	Dust-tight	Liquid Protection	Protected against immersion

Electrical Details	Unit	Nominal	Minimum	Maximum
Discharge Current	mA	8		640
Cut-off Voltage	V	4.0		
Discharge Temperature <sup>2</sup>	°C	25°C	-20	+60

Protection Devices		N.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	16R185BU
Fuse	None	Bypass Diode	1N5817
Thermal Fuse	None	Reverse Current Protection Diode	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 connect multiple 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.**

**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

© Copyright Steatite Ltd 2019. This product design is the intellectual property of Steatite Ltd. No design may be copied or used for commercial purposes without written permission of Steatite Ltd. Users must satisfy themselves, by suitable testing, that products are fit for purpose. Data in this document is for general guidance only - consult Steatite Ltd for information specifically relating to your application. Information is given free of charge and in good faith, but no responsibility can be accepted for errors, omissions, costs, losses or liabilities arising from the use of this information. Do not use in life critical applications.

WABC2101\_FLOWMETER\_REV2

Technical Specifications quoted are verified but do not indicate the maximum performance limitations of the equipment. Specifications are subject to change without notice. E & OE Issue A

