

Product # CB18984	Issue # 1	Issue Date 08/05/2013	Origination Date 08/05/2013	Originator Patrick Smith	Page # 1/2
Battery Specification		Nominal Ratings: 10.8v, 57Ah		Composition: 3S3P	

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.



CB18984 WABC2102

The 10-year battery for ABB AquaMaster 3 electromagnetic flowmeters. Designed in partnership with ABB.

Designed, developed and manufactured in the UK, Creasefield 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 dependent on usage and environment. Elevated temperatures will shorten battery life.		
Pack	10 Year (Lithium)	Cell	Tadiran SL2780
Design Life ¹	Extended - 10 Years	Commodity Code	85065010
UN38.3 TI-T8 Tested	Yes	UN Number	UN3090
Lithium Metal Content	45g	Dangerous Goods Class	Class 9
Packing Group	Group 2	Labelling	ABB WABC2102 label
Country of Origin	United Kingdom	Temperature Marking	Laser Etched

Mechanical Details	N.B: All dimensions and weights are nominal. Creasefield 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 UTS6JC8E4P
Height	138mm	Case	Grey Plastic Case
Weight	2.2Kg	Encapsulation	Polyurethane
Dust Protection	Dust-tight	Liquid Protection	Protected against immersion

Electrical Details	Unit	Nominal	Minimum	Maximum
Discharge Current	mA	12		960
Cut-off Voltage	V	6.0		
Discharge Temperature ²	°C	25°C	-20	+60

Protection Devices	N.B: These devices are designed to protect the pack in event of failure or abuse. Creasefield 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

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⚠ 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.

⚠ You should also consult the following documents:

- 1) Tadiran SL2780 Cell Data Sheet.
- 2) Material Safety Data Sheet.

⚠ 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. Creasefield 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 derated 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.