



The ANIK100 battery pack is a rechargeable battery, designed for intensive deep-sea operations. Available in 100 Wh capacity. Its advanced management and cell balancing technology ensure optimal performance and longevity, even at depths up to 4000 meters. A unique feature of ANIK100 is its capacity for safe parallel connections, allowing for an increase in total capacity in the end application. This flexibility, combined with a compact design and a safety and transport pin for secure mounting and handling, makes ANIK100 an ideal choice for demanding maritime applications.

Ordering Key

Product type number: **RBAT100A90V24150BMSBAL**

R	BAT	100	A	90	V24	150	000	000	0900
			T		V12		BMS	BAL	0300
			P						2000
									4000
Remotecon	Battery Pack	Power rating [W]	Housing Material	Diameter [cm]	Nominal voltage	Height [mm]	Function A	Function B	Depth rating [m]

A = Aluminium
T = Titanium
P = Plastic

V24 = 24 VDC
V12 = 12 VDC

000 for not available
BMS = Battery management and gauge function
BAL = Cell balancing function

Type selection combination guide

RBAT100A90V241500000000900	Battery pack with no BMS or cell balancing rated to 900 m depth
RBAT100A90V24150BMSBAL0900	Battery pack with BMS and Balancing circuit depth rated for 900 meters depth

For more information : info@remotecon.ca
www.remotecon.ca





Features:

- **Rechargeable Battery Pack:** Enables multiple uses with a single purchase, enhancing cost-effectiveness and convenience.
- **Advanced Battery Management and Cell Balancing:** Ensures optimal performance and longevity of the battery cells.
- **Advanced Monitoring and Usage Tracking:** Provides detailed insights into battery health and usage patterns.
- **Depth Rating:** Capable of operating at depths of 300, 900, 2000 and 4000 meters, suitable for various underwater applications.
- **Small Form Factor:** Compact size allows for easy integration into various devices and applications.
- **High Energy Density:** Maximizes the amount of energy stored in a given space, making the battery pack more efficient.
- **Robust and Durable Design:** Built to withstand harsh marine environments, enhancing reliability and safety.
- **Eco-Friendly Technology:** Designed with sustainability in mind, reducing environmental impact.
- **Fast Charging Capabilities:** Reduces downtime, allowing for quicker turnaround in operational settings.
- **Safety Features:** Includes multiple layers of protection against overcharging, deep discharging, and thermal events.
- **Voltage Measurement Pin:** Allows for monitoring the voltage directly at the terminals or in the application, ensuring precise voltage tracking.
- **Battery In-Place Detection:** Features a pin to disable the output if the battery is not correctly mounted, enhancing safety.
- **Communication Bus:** Equipped with a communication interface to report battery status and state of charge to the connected application or instrument.
- **State of Charge Reporting:** Provides accurate information on the remaining battery charge, crucial for managing device usage.
- **Integration with Application Systems:** Enables seamless communication with various devices, ensuring compatibility and functionality across different applications.
- **Modular Expansion Capability:** The ANIK100 battery packs are designed for easy modular expansion, allowing multiple units to be connected in parallel effortlessly, enhancing overall capacity and adaptability for varied energy requirements.





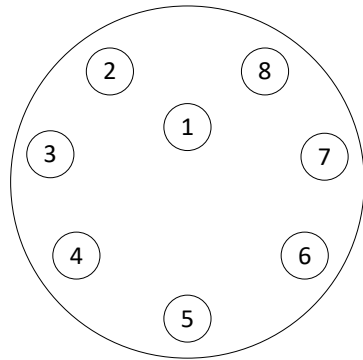
Specifications:

		Minimum	Nominal	Maximum
Electrical Specs				
Output voltage	[V]	18	25.9	29
Nominal Capacity	[Ah]		4.1	
Discharge current	[A]		10	
Charge current	[A]		2	
Depth rating				
Aluminum	[m]		2000	
Titanium	[m]		4000	
Dimensions				
Diameter	[mm]		90	
Height	[mm]		150	
Housing Material				
Aluminum				
Titanium				
Weight				
In Air	Kg			
In Water	Kg			
Temperature				
Charge Temp		0		45
Operational Temp		-20		45
Storage Temp		-20		45
Cycle life	Charge/Discharge		800	



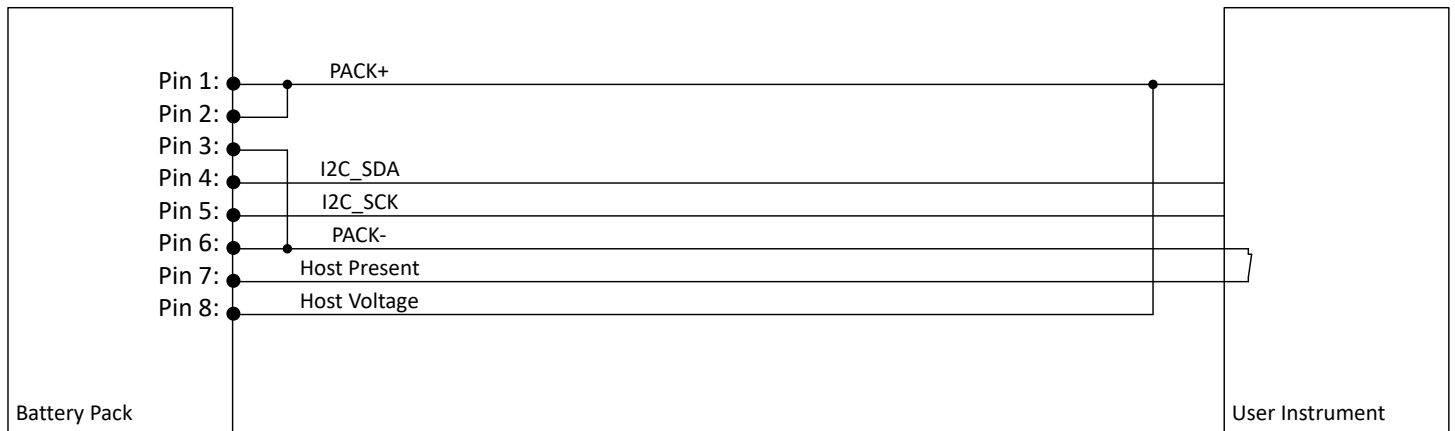


Connection Diagram:



- Pin 1: Pack +
- Pin 2: Pack +
- Pin 3: Pack -
- Pin 4: Communication/I2C_SDA
- Pin 5: Communication/I2C_SCK
- Pin 6: Pack-
- Pin 7: Host Present
- Pin 8: Voltage Measurement

Pin out



* Host Present set to Pack minus in the instrument or at connector side (Battery Pack)

**Pin 8 used for voltage measurement or status reading.

Wiring diagram





Operation Process:

Charging

- Step 1** Lubrication of Connector Pins with REMOTECON lubricant. Apply the lubricant to the pins of the female receptacle on the Charge Adapter.
- Step 2** Attach the Power Cord to the Charge Adapter. Note: It is crucial to use only the charge controller from REMOTECON.
- Step 3** Connect the Charge Adapter to the Battery Pack.
- Step 4** The charge adapter will indicate when charging is done.

Connection to the instrument

- Step 1** Lubricate the connector pins on the cable.
- Step 2** Attach your instrument to the lubricated female receptacle of the Battery Pack.

Note: Upon successful connection, the instrument will start receiving power from the Power Bank. Remember the host present pin must be connected to Pack minus in order for the pack to provide power.

Turn OFF and Storage

- Step 1** Wash the equipment thoroughly with fresh water and then ensure it is completely dried.
- Step 2** Carefully unplug the instrument from the Battery Pack.
- Step 3** Once the equipment is clean and dry, store it securely in the product case.

Case contents:

- Product case
- Subsea battery pack
- Charger (If ordered)
- Power Cord (If ordered)
- Dummy plug
- Lubricant

