



RJE International, Inc.
Irvine, California

**TECHNICAL MANUAL
TAC-DDGC
DIGITAL DEPTH GAUGE AND
CHRONOMETER
OPERATIONS MANUAL**



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REV 02**

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WARNING

Diving is a dangerous and potentially life threatening activity. The TAC-DDGC Digital Depth Gauge and Chronometer must be used by a person who is certified by a recognized agency (PADI, NAUI, SSI, NASDS, YMCA, etc.). Improper use or misuse of the TAC-DDGC could result in serious injury or death. Do not use the TAC-DDGC or any of its components until you have fully read and understand instructions and safety precautions in this manual.

LOW BATTERY INDICATOR

The Low Battery Indicator will come on when the DDGC has 25% of battery life left. This will insure that, even if the low battery indicator is on, you can finish your dive plan. It is recommended that you change the battery as soon as possible after surfacing.

MAINTENANCE

The TAC-200D is very reliable system and needs very little service. It is recommended that the system be rinsed with fresh water after every dive, wiped down with a clean cloth, and stored in a cool, dry place. Periodically, you need to disassemble the system and clean all the components separately.

It is recommended that the unit's function and depth gauge, of the TAC-DDGC, be tested every 6 to 12 months. The TACDDGC-01 Waterswitch Shorten Tool can be used for this task.

MAINTENANCE TOOLS

To support the maintenance of the TAC-DDGC, RJE International offers these custom tools:

TACDDGC-01 Waterswitch Shorten Tool:

The TACDDGC-01 shorts the waterswitch to activate the unit out of the water. This allows for testing the unit's functions, checking the battery, and checking the accuracy of the depth gauge in a dry chamber.

TACDDGC-02 Battery Cap Removal Tool:

The TACDDGC-01 is used to remove the battery cap.

CUSTOMER SUPPORT

We always welcome our customers' feedback and product improvement ideas. If you have any questions or comments, contact us at:

RJE International, Inc.

Tel: (949) 727-9399 Fax: (949) 727-0070 E-mail: sales@rjeint.com

BACK LIGHTING

To display can be backlit for operating the unit in poor visibility or for night dives. Pressing the switch "UP" for 1 second will turn teh baclight ON and OFF.



LEG TIME STOPWATCH

To start the leg timer, pressing the switch "DOWN" for at least one second. To pause and restart the leg time, press the switch "DOWN" again for 1 second. If the switch is held in the down position for at least 3 seconds, the leg timer will reset to zero.



CHANGING DEPTH SCALE

The TAC-DDGC can display depth in feet or meters. In the meter mode, a decimal point is displayed in the LCD window. To change the scale, press the switch in the up position for at least 15 seconds, to cycle the depth mode.

PREFACE

PROPERTY

The information, descriptions, photos, and illustrations in this manual are the property of RJE International, Inc. Materials may not be reproduced or disseminated without prior written consent of RJE International, Inc.

WARRANTY

RJE International, Inc. warrants the TAC-DDGC and associated equipment to be free of defects in material and workmanship for a period of one year from date of delivery to the original purchaser. Obligation under this warranty is limited to repair or, at the sole discretion of RJE International, replacement of any product returned to our facility or authorized distributor. All products shall be shipped to RJE FREIGHT PREPAID and shall be returned to customer FREIGHT COLLECT. Equipment may not be returned without prior authorization which must be requested in writing. Upon authorization a Return Authorization Number (RMA) will be issued. The RMA Number must appear on the outside of the shipment, as well as, in all pertaining correspondence. Shipments received without an RMA number will be refused by RJE International. This warranty does not apply in cases where the product malfunctions as a result of mishandling or improper use.

LIABILITY

RJE International, Inc. assumes no liability for damages, losses, or cost incurred consequential through operation or malfunction of any RJE International, Inc. product.

CHANGES

RJE International, Inc. reserves the right to make any changes in design or specifications at any time without any obligation to modify the previous units. This manual is provided for information and reference purpose only and is subject to change without notice.

TAC-DDGC DIGITAL DEPTH GAUGE AND CHRONOMETER

Developed and manufactured by Dukane Corporation, the TAC-DDGC Digital Depth Gauge and Chronometer will provide you accurate depth and leg time while you navigate with the TAC Series Navigation Boards or other platforms.

DDGC Features:

Leg Time Stopwatch:	Displayed in Hours/Min./Sec. User can pause, resume, and reset Leg Time
Current Depth:	Displayed in Feet or Meters (user selectable)
Depth Memory Function:	Saves and Displays Max Depth once Unit is Removed from the Water for 10 minutes
Low Battery Indicator:	Displays "BAT" when 25% of battery remains.
LCD Display:	Backlit, user selectable

DDGC Specifications:

Operational Depth:	125ft
Operational Life	
No Backlight:	22 hours
Backlight On:	10 hours
Power Source:	One 1.5 Volt alkaline battery NEDA type 15A
Activation:	Water Switch
Depth Resolution	1 ft (0.30 meters)
Altitude Compensation:	Automatic compensation to 10,000 ft. (3030 meters)
Leg Timer Capacity:	20 hours
Leg Timer Resolution	0.05%
Operational Temp:	29°F to 95°F (-2°C to 42°C)
Housing	Molded Plastic
Weight (in air):	9.5 oz. (294g)
Dimensions:	2.75" X 3.85" X 1.29" (6.9cm X 9.84cm X 3.27cm)

BATTERY INSTALLATION

It is recommended that the battery be replaced after every mission. The battery is a commercial off the shelf 1.5 Volt alkaline battery. It is advisable that the operator carry spare batteries when traveling to remote destinations where it may be difficult to obtain.



Access to the battery compartment is provided through the Battery Cover located on the top of the TAC-DDGC. To replace the battery unscrew the Battery Cap located on the top right side of the unit with the TACDDGC-02 Battery Cap Removal Tool or a large blade slotted screwdriver. Then remove the old battery and install a fresh 1.5V AA alkaline battery with the "positive-side" facing towards the top. Be sure that all O-ring sealing surfaces are clean and undamaged before re-installing the Battery Cap. The DDGC is ready for use. If the DDGC is to be stored for long periods, the battery should be removed from the unit.

OPERATION

The DDGC is activated upon immersion in water. Once powered up, the unit will display all LCD segments and backlighting for 1 second, blank for another second, then display the depth and a leg time of 0:00:00.

A 3-position switch located on the left side of the unit is used to control the unit's functions. The switch normally rests at the center position and can be moved up or down momentarily. Upon removal from the water, the unit will continue to display the maximum depth achieved on the dive for 10 minutes but will not respond to any switch operations. After 10 minutes the unit will power off.

