DELTA
Remote Control

QUICK GUIDE

DE212 GLOBAL WIRELESS DEADMAN

THE ENVIRONMENT IS IMPORTANT TO US AND FOR SUSTAINABILITY PURPOSE, THE MANUAL ARE ONLY AVAILABLE THROUGH OUR WEBSITE.

IF YOU REQUIRE MORE ASSISTANCE, PLEASE DON'T HESITATE TO CONTACT YOUR LOCAL RESELLER OR US AT HELLO@DELTARC.NO

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DELTA REMOTE CONTROL ARE DESIGNING AND MANUFACTURING HIGH QUALITY WIRELESS RADIO REMOTE CONTROLS.

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DE212 QUICK GUIDE

DELTA Remote Control

THANK YOU!

... for purchasing your DE212 Global Wireless Deadman System. We are sure you will be impressed with the convenient way that your new remote control system enhance and ensure safety for your every day work situations.

Read this quick guide to get started with the DE212 Global Wireless System. For greater details, consult the manual for your product.

You can always find the latest version of the manual at our website or by scanning til QR code.
www.deltarc.no/manuals

READ THIS!

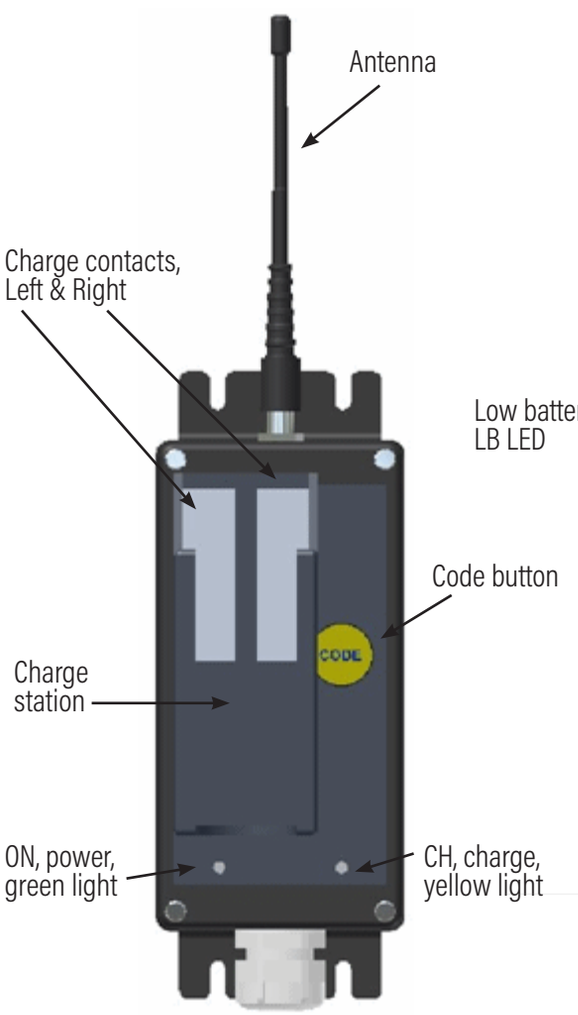
It is important that the operator keeps the transmitter battery charged so that the system always are ready for operation. After a refuelling operation, always replace the transmitter in the charger at the receiver front. This will secure recharge of correct energy to the battery according to last operation.

If the transmitter is left at storage for more than 4 months with the battery connected, the battery will be at very low energy and may not be able to recharge. If so the battery module must be replaced.

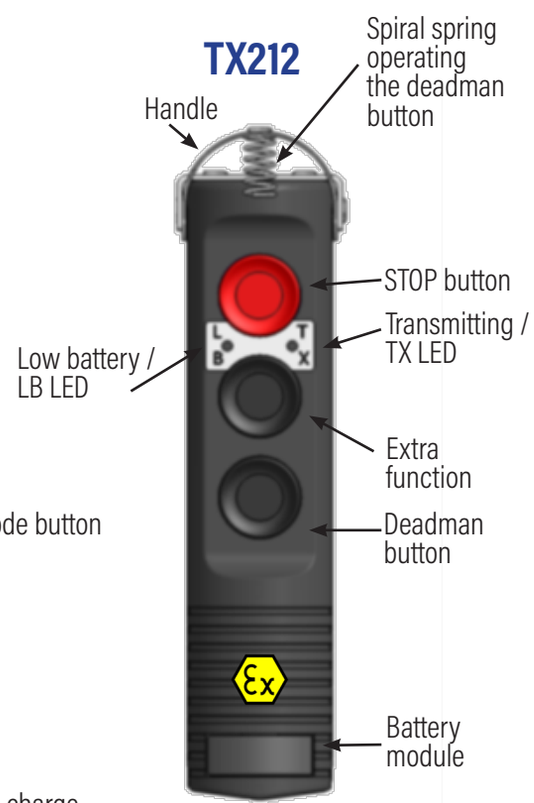
The DE212 system should be kept as clean as possible at all times, this is vital for the transmitter.

SYSTEM OVERVIEW

RX212



TX212



RX LED INDICATOR CODES:

Operation:
CH LED rapid flash: Connected to transmitter and operating
ON LED solid light: correct voltage and ready

Charging: Yellow light
CH LED dark: No action
CH LED solid light: Full charge current
CH LED flash: Trickle charging

Charging: Blue light
CH LED solid light: Too low supply voltage connected

Coding/pairing:
ON LED 3x flash: Coded and connected

TX LED INDICATORS CODES:
LB LED red: low battery
LB LED green: Connection OK
TX LED yellow: Operating

NOTE: LB LED is only active when transmitter is active.

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MAINTENANCE

The transmitter, TX212 is an Ex, ATEX/IECEx classified unit, which can be used in hazard areas, zone 1. This classification needs a special attention from the owner and user. In case of a damage of the TX212, it should be taken out of service send for repair to Delta RC AS or an appointed service station. However the following parts can be replaced by a local skilled mechanic:

- a) change the battery unit. See also section 5.3 in the manual.
- b) change the spiral spring on moving handle
- c) replace rubber buttons
- d) change the PCB
- e) change the complete housing with the moving handle

NB: Due to Certification requirements point d) and e) are for distributers with service certification only.

Any mechanical or soldering work beyond this is not allowed.
Do not open the TX212 housing except when replacing the battery module.

Do not operate a TX212 which has a damaged housing. A damaged unit must be taken out of service, and returned for repair. Damages like cracks or holes in the cabinet plastic or rubber, are a safety risk and must be repaired before further use.

IMPORTANT NOTE:
Any unauthorized attempted repair, modification or other alterations of the product without prior written permission from Delta RC AS will render both ATEX/IECEx approvals and warranties invalid, and the responsible operator/owner will be held liable for any damages or injuries which may occur.

Delta RC AS shall not be liable for reimbursements, claims and damages that may result from the unauthorized repair, modifications or alterations of the product.

BATTERY RECHARGING AND REPLACEMENT

Before the transmitter is used for the first time, it should be recharged with continues charging for 3 hours. See point 6.2 in the manual for further instructions.

Note, if the battery is not completely empty, two hours charging is normally sufficient to start operation. Do not repeat the 3-hour full charging unless the red LB LED on the transmitter is flashing.

The charging of the transmitter battery is controlled by the software in the receiver, and it is recommended always to leave the transmitter for charging. The charging current is limited to 50mA during full charge, and the charging time is regulated by the receiver software. The battery temperature will never rise above +50°C and will not be a hazard for the EX environment. In case of a short circuit of the battery connections, an integrated temperature- and current fuse, will brake the internal connection to the battery cells, and will secure a temperature allowable in EX environment. With a fully recharged battery the operational time is more than 12 hours. This means that the Deadman button on the transmitter might be held operated for more than 12 hours before it stops transmitting.

Charging the battery, should take place at temperatures not lower than 0°C and not higher than +50°C. Charging outside these limits will results in very low charging current, or no charging of the battery at all. The battery will however not be damaged.

When operating at low temperatures, lower than 0°C, do not leave the transmitter in a cold driver's cabin overnight or for a long period of time. Take the transmitter inside to keep the battery warm. Charging of the transmitter will normally be finished before the car is back to the depot.

Use only Delta chargers for charging the transmitter, other chargers might overload the battery and the ATEX/IECEx certification is no longer valid.

After July 1. 2003, the new ATEX norms are activated. For the DE212 system, the battery module and the transmitter circuit board must be replaced with parts produced according to this norm. This means that repair of the TX212 must take place at Delta RC AS or by a Delta RC AS appointed dealer. Otherwise EX- certificate may no longer be valid.

The battery module 02465 and all replaceable parts of the transmitter, must be original parts delivered by Delta RC AS. Otherwise the Ex certifications are lost, and the customer has to take all responsibilities. The operator is only allowed to change the battery module, nothing else.

The battery replacement operation must always take place outside Ex-area. When the battery module must be replaced, the procedure explained in the manual 6.3 needs to be followed strictly.

WARRANTY CONDITIONS

Complaints

When receiving the product the buyer must inspect it, and eventually complain any obvious faults or missing items within 8 days from reception. Acceptance of complaint will otherwise not be considered. Complaints of any faults that could only first be discovered after mounting and testing the product must be reported at once.

Warranty

The warranty covers only damages caused by material faults and manufacturing errors. The guaranty ceases 12 months after the delivery date. Delta RC AS or appointed repair workshop, is bound to repair and replace defect parts in its products, free of charge, in its main workshop during its normal working hours. Packages being sent to and from Delta RC AS are in the responsibility of the purchaser, as they is also economically responsible for paying the transportation charges, toll, insurance and other charges related. Should the warranty repair be done at the customer's location, there will be charges for cost of travelling, accommodation and dieting, conforming to the government's assertions. There will also be an additional charge of 50% of travelling time by the current repair regulations.

The warranty is cancelled if:

a) There has been done any modification or attempts in the product without a prior written permission from Delta RC AS.
b) The product has been handled wrongly or has not been maintained properly.
c) The product has been connected to antennas or equipment not delivered or approved by Delta RC AS.
d) The transmitter unit has been stored longer than 6 months without disconnected battery or recharged the battery.
e) The payment conditions have not been fulfilled.

TECHNICAL DATA

This equipment complies with the following standards:

Europe/EU: ERC 70-03 EN 300-400. USA: FCC 15.249. Japan: STD-T66. It is in accordance to EU's demands in order to label the equipment with CE.

Transmitters are ATEX/IECEx approved, according to:

EN 50 014:1997+A1+A2. EN 50 020:2013 and
For the EU: II 2 Ex ib IIC T4 Gb, EN 60079-0:2012 + A11:2013 and
EN 60079-11:2012
IECEx: IEC 60079-0 Ed.6 and IEC 60079-11 :2011

ATEX certification number: ZELM 03 ATEX 0139x
IECEs certification: IECEx ZLM 13.005X

General Specification	
Frequency	2,4 GHz, CH1
Modulation:	GFSK
Coding:	Digital coding, 65.536 different pre-set codes from manufacturer.
Functions:	Three functions; Deadman, STOP and one extra.
Shock Resistance:	1 m free-fall on concrete floor.
Temperature range	
Operation:	-20º to +50º C. For lower temperature operation, contact manufacturer.
Storage	-40º to +65º C.
Charge	0º to +50º C.