Box-24 mod.0
(Box-24/17M5)

ИСО 9001

Fasteners inside

INSTRUCTION MANUAL

1 TECHNICAL DATA

1.1 General

1.1.1 Box-24 mod.0 (Box-24/17M5) - hereinafter referred to as the box – with installed batteries [1] is designed to enhance operating hours of (to provide backup power to) detectors, control and indicating equipment of fire and intrusion alarm systems when mains power 220 V fails.

The box is designed to be used along with battery backed power supplies RIP-24 (mod. 01, mod. 01P) or similar which provide connecting additional 17 Ah lead-acid batteries. **WARNING: Connecting the box to another power supply please be ensure the charging rate of the batteries installed inside the box from the power supply doesn't exceed 3 A.**

1.1.2 The box is intended for round-the-clock operation.

1.1.3 The box is intended to operate at temperatures from minus 10 to +40°C.

1.2 Specifications

1.2.1 Output Voltage	– 20*V dc to 28 V dc
1.2.2 Max Load Current	– 4 A
1.2.3 Short-Time Max Load Current (for 2 min)	– 6 A
1.2.4 Max Battery Charging Rate	– 3 A
1.2.5 Overall Dimensions	– 222 mm x 356 mm x 96 mm
1.2.6 Weight, max	– 14 kg
1.2.7 Ingress Protection Rating	– IP30

* The lower limit of the output voltage range is defined by the specific threshold of the battery undervoltage lockout of the power supply RIP-24 (mod. 01, mod. 01P).

1.2.8 The box provides protection of the batteries against short circuits and overloads restoring output voltage after repairing the short circuit and disconnecting from the load.

1.2.9 The average lifetime of the box is at least 10 years.

1.3 Standard Delivery

1) Box	– 1
2) This Instruction Manual	– 1
3) Jump Wire	– 1
4) Woodscrews with Wall Plugs	– 3 (within the case)
5) Package	– 1

2 OPERATION INSTRUCTIONS

2.1 Safety Precautions

2.1.1 Do always shut off mains power before mounting, wiring, and maintaining the Box-24.

2.1.2 Be careful installing and connecting batteries. Avoid coupling of output terminals between each other or on the metal case of the box.

2.1.3 Only properly trained staff can install and maintain the box.

2.2 Using the Box

2.2.1 The box is to be installed on a wall or another structure of the protected premises near the power supply the box is connected to, no farther than 1 meter from it. Overall and mounting dimensions of the box as well as a connection diagram are shown in Figure below.

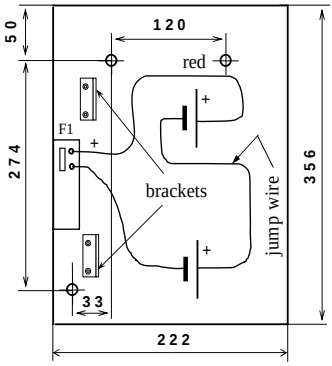
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[1] ***Batteries are to be supplied separately. Recommended for the box are DELTA DTM 1217 and DELTA DT 1217. To provide uniformity of the charge, the batteries to be installed in the box and RIP-24 must be of the same production date.***

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2.2.2 Attach the box at three points using the woodscrews provided.

2.2.3 Loosen the fastening screws of the brackets. Connect the negative terminal of the lower battery with the white wire going out of the board. Then, connect the positive terminal with the jump wire provided. Keep the battery in place using the bracket and fasten the screws. Next, connect the positive terminal of the second battery with the red wire going out of the board and connect the negative terminal of the second battery with the second end of the jump wire. Finally, set the second battery on the lower one and keep it in place using the upper bracket. Check the polarity and the value of output voltage.



2.2.4 Observing polarity, connect the terminals of the box output cable immediately to the leads of the batteries which are installed in the power supply. Then connect the knife contacts of the output cable to the wires going out of the power supply board (observing polarity). Ensure the temperature of the F1 fuse doesn't essentially exceed the room temperature. If the temperature of the fuse is higher, inspect once more the batteries for proper connection. Close the box cover and tighten up two side screws.

2.2.5 Apply mains power to the power supply.

WARNING: Please use batteries from the same manufacturer and meet the requirement of equality of the battery charge state.

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