Box-12 mod.0
(Box-12/34M5)

ИСО 9001

Fasteners inside

INSTRUCTION MANUAL

1 TECHNICAL DATA

1.1 General

1.1.1 Box-12 mod.0 (Box-12/34M5) - 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-12 (mod. 01, mod. 05) or similar which provide connecting additional 12 V 17 Ah lead-acid batteries. **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 5 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	– 10*V dc to 14 V dc
1.2.2 Max Load Current	– 8 A
1.2.3 Max Battery Charging Rate	– 5 A
1.2.4 Overall Dimensions	– 222 mm x 356 mm x 96 mm
1.2.5 Weight, max	– 14 kg
1.2.6 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-12 (mod. 01, mod. 05).

1.2.7 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.

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

1.3 Standard Delivery

1) Box-12	– 1
2) This Instruction Manual	– 1
3) Woodscrews with Wall Plugs	– 3 (within the case)
4) 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-12.

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 are shown in Figure below.

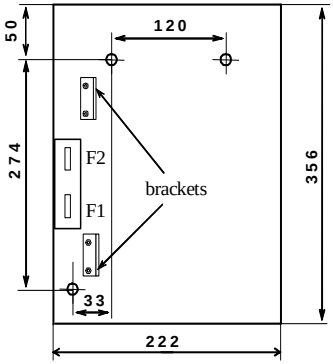
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[1] ***Batteries are to be supplied separately. Recommended for the box are DELTA DTM 1217 and DELTA DT 1217. To provide uniformity of the charge, the batteries to be installed in the box and RIP-12 must be of the same type and of the same production 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 one battery to the terminals observing polarity (the red wire is to be connected to the positive lead of the battery). Keep the battery in place using the bracket and fasten the screws. Check the polarity and the voltage value at the output terminals; the voltage must be in accordance with Clause 1.2.1. In a similar way connect the second battery. 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. Ensure the temperature of the F1 and F2 fuses doesn't essentially exceed the room temperature. If the temperature of the fuses is higher, inspect once more the batteries for proper connection.



2.2.4 Observing polarity, connect the terminals of the output cable immediately to the leads of the battery which is installed in the power supply (that is, in parallel with the terminals of the power supply). 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 battery charge state equality.

The box can be operated with a single battery installed.

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