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Mod. **BIO-D**
Mod. **BIO-W**



User Manual

ELECTROMECHANICAL TIME SWITCHES

Read all the instructions carefully

SAFETY WARNINGS

- 1) The appliance should be installed by a competent operator
- 2) The appliance should be installed in a panel in such a way as to guarantee that the terminals are inaccessible after fitting
- 3) Connect the instrument as shown in the alongside diagrams
- 4) Before touching the connector terminals make sure that the wires to be connected or already connected to the instrument are not live
- 5) Before supplying power to the wires connected to the instrument, make sure the terminals will be inaccessible after installation
- 6) Do not power or connect the instrument if any part of it is damaged

Timed modular mechanical inserter

Code	Model	Description	Dial	Min. switching time	No. of markers
VE087300	BIO-D	Daily	1x24 h	15 minutes	96
VE088100	BIO-W	Weekly	1x7 days	2 h	84

TECHNICAL SPECIFICATIONS

- Mechanism: step-step motor with quartz oscillator
- Power supply: 230 V AC (-15% / +10%) 50/60 Hz
- Absorption: 0,5 W
- Output: relay with exchange contact 16(4) A/250 V AC on resistant load (inductive)
- Charge reserve: 100 h after a constant charge of 48 h
- Operating precision: ± 1 s per day at 22 °C
- Operating temperature: -10 °C ÷ +50 °C
- Protection level: IP20
- Insulation: class II

ELECTRICAL CONNECTIONS

- Connect the instrument as shown in panel **B)**

OPERATING GUIDE

- Manual operation
Place the cursor **1)** (see panel **C)** in position **I**.
The contact between terminals 1 and 2 will be permanently closed.
- Automatic operation
Place cursor **1)** (see panel **C)** in position \ominus

BIO-D PROGRAMMING (*)

- Place cursor **1)** in position \ominus
- Programme the clock intervention for the 24 hour period by positioning the grey markers with horizontal movement from right to left
- Each marker corresponds to 15 minutes of operating time
- The number of markers moved determines the duration of the operation
- Set the current time by directly rotating the toothed part of drum **2)** (see panel **C)** in the direction shown by the arrow

BIO-W PROGRAMMING (*)

- Programme the clock intervention for the 24 hour period by positioning the yellow markers with horizontal movement from right to left
- Each marker corresponds to 2 hours of operating time
- The number of markers moved determines the duration of the operation
- Set the current time by directly rotating the toothed part of drum **2)** (see panel **C)** in the direction shown by the arrow

(*) This operation should be carried out only when the instrument is not powered.

LEGEND

- A)** Dimensions
B) Connection diagram
C) Operation

REFERENCE STANDARDS

- Conformity with Community Directives:
73/23/EEC, modified by **93/68/EEC** (low voltage)
89/336/EEC, modified by **92/31/EEC** and **93/68/CEE** (EMC)
is declared with reference to the following harmonised standards:
- **FOR SAFETY: EN 60669-2-3:**
- **FOR ELECTROMAGNETIC COMPATIBILITY:**
EN 61000-6-2
EN 61000-6-3

