



No. 2692.

GALVANOMETER AND DC VOLT-AMMETER TRAINING AIDS, DEVICE 6E4

TRAINING CATEGORY:

MECHANICAL (Electricity)

ORIGINATING AGENCY:

NAVTRASYSSEN

SECURITY CLASSIFICATION:

Device 6E4 is unclassified.

FUNCTIONAL DESCRIPTION:

The Galvanometer and DC Volt-Ammeter Training Aids, Device 6E4 is a versatile meter and is recommended for the widest variety of lecture and laboratory demonstrations because of its choice of ranges and its design and construction for this type of application.

The movement is in clear view behind the glass window. It uses a double magnet and is built with extra ruggedness but is otherwise constructed along conventional principles so that it may be used to explain standard D'Arson-

val movements. The wiring diagram for converting from galvanometer to any one of the voltmeter or ammeter ranges is shown on the panel inside the case and indicates clearly how each change is made at the binding posts on the base. The large black spade pointer is clearly visible from all parts of a large room and is trussed for proper rigidity.

The voltmeter ranges of 25 millivolts, 5, 25, and 125 volts are obtained using series resistors and the ammeter ranges of 25 milliamperes, 1, 5, and 25 amperes by shunts. The four (4) resistors and four (4) shunts are included, clips being provided on the back for storing them when not in use. The galvanometer sensitivity is 100 microamperes per division, well suited to the usual classroom demonstrations.

EQUIPMENT SUPPLIED:

One (1) Galvanometer and DC Volt-Ammeter Training Aid, Welch Catalog No. 2692, Device 6E4. Overall dimensions are 12-1/2" x 15-3/4".

DIRECTORY OF NAVAL TRAINING DEVICES

POWER REQUIREMENTS:

110 Volt, 60 Cyc, single phase, 100 micro-amperes per scale division, 3 ohms resistance (approx).

RANGES:

25 mv, 5 v, 25 v 125 v, 25 ma, 1 amp, 5 amp, 25 amp.

SCALE:

32 centimeters long.

REFERENCE PUBLICATIONS:

W. M. Welch Scientific Co., Catalog No. 2692; Chicago, IL.

CONTRACT IDENTIFICATION:

Manufactured by W. M. Welch Scientific Co., Chicago, IL

LOCAL STOCK NUMBER:

6910-LL-C00-7204