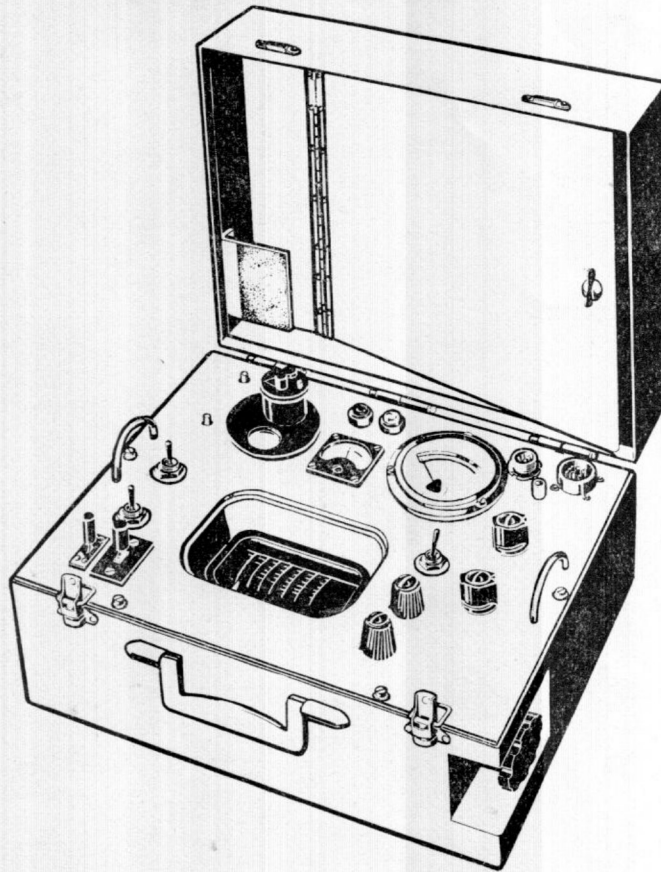


## ULTRA, TYPE QE2230 TEST SET FOR JET PIPE TEMPERATURE CONTROL SYSTEMS



*Air Ministry Ref. No.* ... .. 5G/3204  
*Admiralty Pattern No.* ... ..  
*Dimensions* ... .. 10 in. × 16 in. × 11 in.  
*Weight* ... .. 36½ lb  
*Associated publication* A.P.4343S, Vol. 1, Sect. 23, Chap. 20

### BRIEF DESCRIPTION

The Type QE 2230 test set is designed for testing the jet pipe temperature control and indicating systems of gas turbine engine aircraft. The instrument embodies a ten-turn, toroidally wound, balancing potentiometer which provides a temperature scale of 120 inches covering a range of temperatures from 400 to 1,000 deg. C. without range-switching. The test set can be operated in ambient temperatures ranging from -30 to +55 deg. C. and incorporates automatic cold junction compensation and a robust galvanometer; the d.c. power supply is provided by mercury cells having an effective life of 80 hours.

The following tests can be made with the test set:—

- (1) Thermocouple resistance check
- (2) A.C. power supply phase sequence check
- (3) Rapid temperature indication
- (4) Measurement of temperature datum on solenoid valve and both a.c. and d.c. actuator systems.
- (5) Over-temperature trip indication
- (6) Turbine speed control system operation
- (7) Temperature indicator system

**RESTRICTED**

# MINIATURE GEAR TEST SET FOR JET PUMP TEMPERATURE CONTROL SYSTEMS



MINIATURE GEAR TEST SET FOR JET PUMP  
TEMPERATURE CONTROL SYSTEMS

THE TYPE OF TEST SET IS DESCRIBED IN THE DRAWINGS AND THE SPECIFICATIONS AND THE OPERATING INSTRUCTIONS ARE GIVEN IN THE MANUAL. THE TEST SET IS A COMPLETE UNIT WHICH CAN BE USED FOR TESTING GEAR DRIVEN PUMPS AND FOR TESTING GEAR DRIVEN PUMPS WITH TEMPERATURE CONTROL SYSTEMS. THE TEST SET IS A COMPLETE UNIT WHICH CAN BE USED FOR TESTING GEAR DRIVEN PUMPS AND FOR TESTING GEAR DRIVEN PUMPS WITH TEMPERATURE CONTROL SYSTEMS.

OPERATING INSTRUCTIONS

1. The test set is a complete unit which can be used for testing gear driven pumps and for testing gear driven pumps with temperature control systems.

2. The test set is a complete unit which can be used for testing gear driven pumps and for testing gear driven pumps with temperature control systems.

3. The test set is a complete unit which can be used for testing gear driven pumps and for testing gear driven pumps with temperature control systems.

4. The test set is a complete unit which can be used for testing gear driven pumps and for testing gear driven pumps with temperature control systems.

5. The test set is a complete unit which can be used for testing gear driven pumps and for testing gear driven pumps with temperature control systems.

6. The test set is a complete unit which can be used for testing gear driven pumps and for testing gear driven pumps with temperature control systems.

7. The test set is a complete unit which can be used for testing gear driven pumps and for testing gear driven pumps with temperature control systems.

8. The test set is a complete unit which can be used for testing gear driven pumps and for testing gear driven pumps with temperature control systems.

9. The test set is a complete unit which can be used for testing gear driven pumps and for testing gear driven pumps with temperature control systems.

10. The test set is a complete unit which can be used for testing gear driven pumps and for testing gear driven pumps with temperature control systems.

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