Chapter 4

PRESSURE INDICATOR, TYPE S149/1/270 (Ref. No. 6D/2710)

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General

1. This is a moving coil type instrument and is electrically operated with current provided from a pressure transmitter, which employs a Bourdon tube principle. The extension and contraction of the tube moves a wiper contact arm across a resistance winding. This causes variation of current applied to the moving coil of the pressure indicator. This indicator, Ref. No. 6D/2710, is calibrated in lb/in.^{2} from 0 to 300.

Circuit and connections

2. The circuit diagram is shown in fig. 2 and connections to the indicator are made via three unified threaded terminal screws at the rear of the instrument.

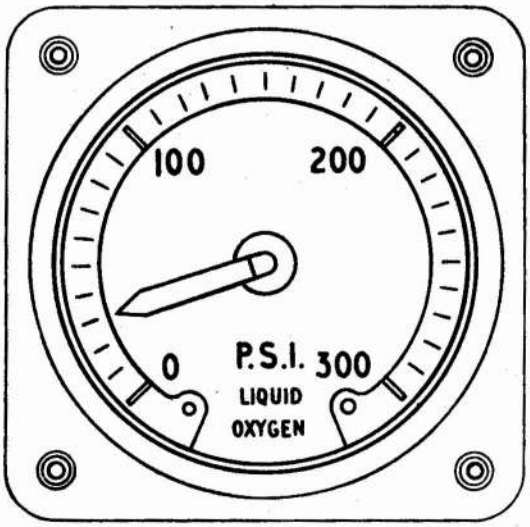

Fig. 1. Pressure indicator, Type S149/1/270

Testing and calibration

3. When testing an indicator for calibration a circuit must be connected as shown in fig. 3 : the calibration values are as follows :—

Calibration values

Scale position	Resistance value R1	Resistance value R2
0	490	2760
100	1075	2175
200	1645	1605
300	2210	1040

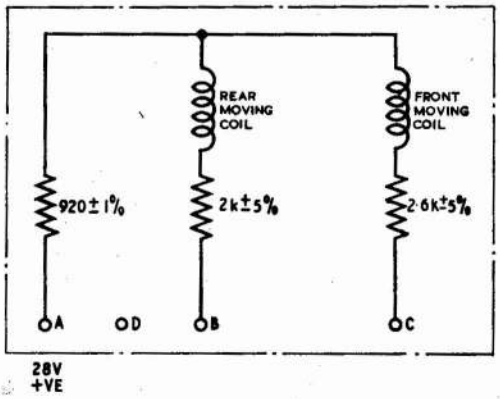

Fig. 2. Circuit diagram

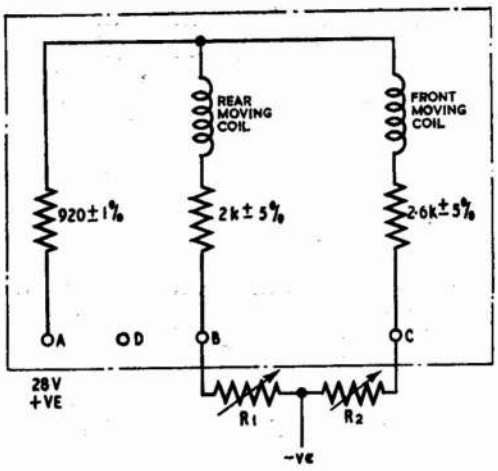

Fig. 3. Test circuit diagram

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