

Chapter 2-5

INDICATOR, TYPE S149.1.126 OR 65

CONTENTS

Para

- 1 Dial presentation
- 2 Circuit and connections
- 3 Testing
- 4 General information

Table

1 Calibration values	...	...	...	...	...	...	...	...	Page
									2

Fig

1 Indicator, Type S149.1.126	...	...	...	...	...	...	...	Page
2 Circuit and test circuit diagram	...	...	...	...	...	...	...	1
								2

DIAL PRESENTATION

1 These indicators, Fig 1, are calibrated in units of lb/in² from 0 to 4000; the indicator is controlled by current from a pressure transmitter applied to the moving coils of the indicator. The movement is designed as a ratiometer which measures the ratio of two currents supplied from the transmitter. A typical application of this indicator is the measure of hydraulic pressure. S149.1.126 has a fluorescent scale and pointer.

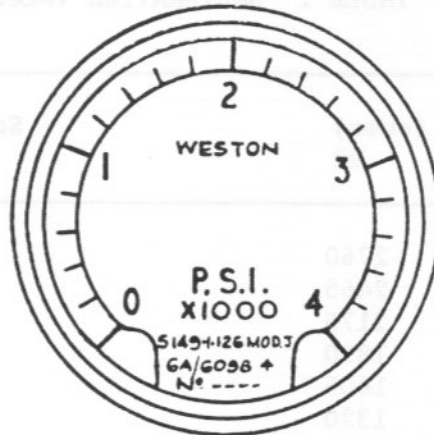


Fig 1 Indicator, Type S149.1.126

CIRCUIT AND CONNECTIONS

2 The circuit diagram is shown in Fig 2 and connection to the indicator is made via a 3-pole Cannon plug.

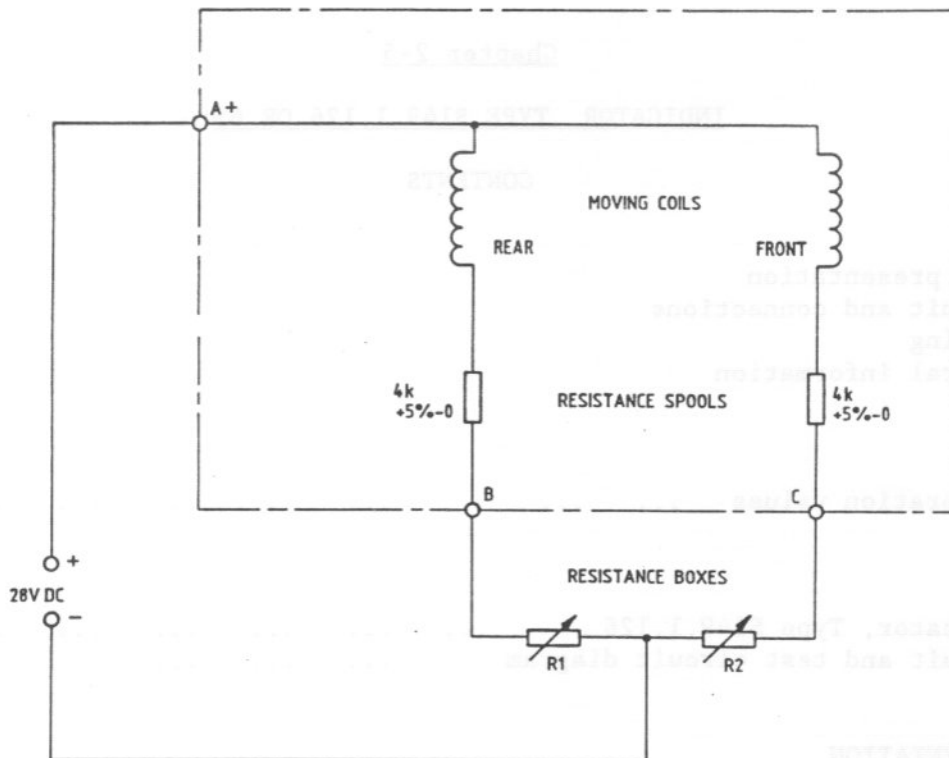


Fig 2 Circuit and test circuit diagram

TESTING

3 When testing an indicator for serviceability, a circuit must be connected as shown in Fig 2 (outside the dotted line); the calibration figures are given in Table 1.

TABLE 1 CALIBRATION VALUES

Resistance (ohms)		Scale reading
R1	R2	lb/in ²
490	2760	0
785	2465	500
1075	2175	1000
1360	1890	1500
1645	1605	2000
1930	1320	2500
2210	1040	3000
2485	765	3500
2760	490	4000

Accuracy $\pm 2\%$ of full-scale deflection

GENERAL INFORMATION

4 The pointer staff revolves in an oil-damped jewel bearing contained within the front bridge. The oil used has a particular viscosity for this indicator movement.