

Chapter 5
CONTENTS GAUGE INDICATOR (802595)
REF. NO. 6D/2532

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Introduction

1. This instrument is a twin miniature liquid oxygen contents gauge provided for aircraft liquid oxygen installations.

DESCRIPTION

2. This twin unit consists of two miniature contents indicators for aircraft liquid oxygen systems, mounted together in the form of an assembly. Each instrument consists of the conventional moving coil indicator, where the movement of the moving coil in relation to the field of the permanent magnet, is proportional to the voltage applied to the coil. Empty is indicated by "0" and is equivalent to a current of 0.40mA to 0.52mA. Full is indicated by "F" and is equivalent to a current of 1.94mA and 2.0 mA. The sweep between "0" and "F" is approximately 180 deg. and indications of $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ are marked in white. Below "0" there is a red, lower failure arc, above "F" an upper failure arc, also red. The connections to the indicator is by six B.A. terminals mounted on the back of the instrument, connections to instrument 1 being by terminals A and B and to instrument 2 by terminals E and F.



**Fig. 1. Contents gauge indicator (802595)
Ref. No. 6D/2532**

3. The complete assembly is designed for panel mounting via four No. 6 32 U.N.C. stiffnuts mounted on the front plate.

SERVICING

Insulation resistance test

4. The insulation resistance between pins A, B, E. and F. connected together and the case, measured at 50V d.c., should be not less than 50 megohms. The insulation resistance between terminals A and F, also measured at 50V d.c., should not be less than 100 megohms.

Accuracy test

5. The calibration of the indicator should be within the limits given in Table 1 when checked under the following conditions.

6. The indicator should be mounted on a test panel. The current through the instrument should be increased until the pointer reaches the "F" mark. After 15 minutes the current should be gradually reduced and measured at each calibration point.

TABLE 1
Calibration Check

Calibration point	Current (mA d.c.)	
Start of zero mark	0.40	} +0.05
End of zero mark	0.52	
$\frac{1}{4}$ full	0.955	
$\frac{1}{2}$ full	1.31	
$\frac{3}{4}$ full	1.605	
Start of Full mark	1.94	
End of Full mark	2.00	

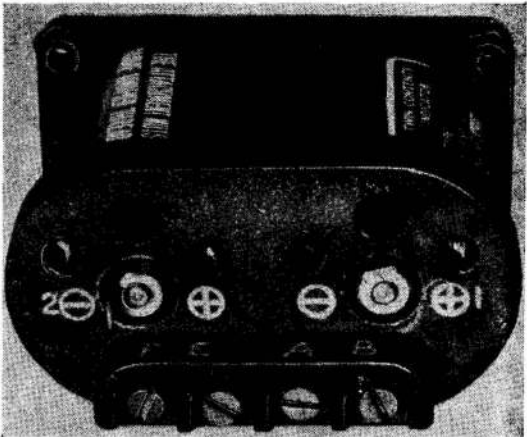


Fig. 2. Rear view



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