

# **Wattmeters**





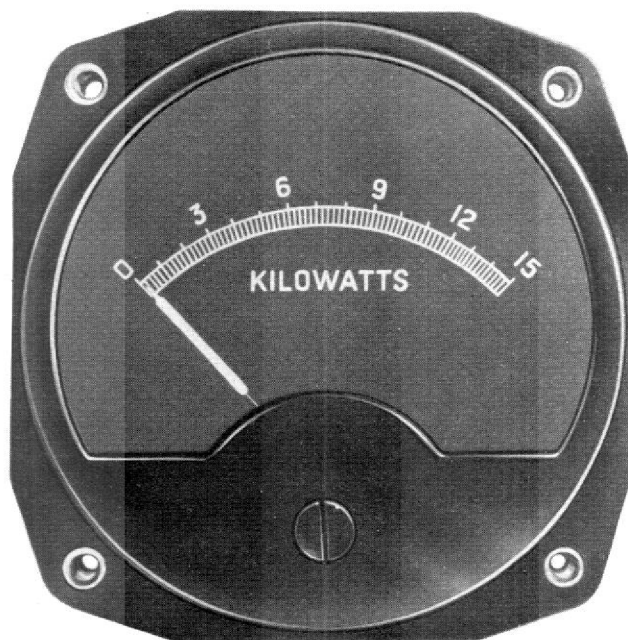
## THERMAL WATTMETERS

MODEL S 192 FORM 6

The Model S192.6 is a single phase wattmeter and can be made available to cover potential ranges of 100-200 volts, at aircraft frequencies. It is independent of wave form and power factor.

The indicator should be used in conjunction with the Model S117 current transformer (See Section 15). Electrical connections can be made via No.4BA or No.6UNC screw terminals with captive washers.

Accuracy of Indicator	=	$\pm 4\%$ of F.S.D.
Weight	=	1.1/4 lb (567 g) approx.
Size and Shape	=	Large S.A.E. Case depth= 3.9 in (99 mm)
Fixing Diagram	=	FD.779
Pointer Deflection	=	100 Degrees
Scale Length	=	2.48 in (63 mm) approx.



*Model S 192 Form 6*

*Typical Presentation*



### MODEL S 104 WATT/VAR METER

The thermal Watt/Var meter is designed for use on 200 Volt, 400 c/s, 3-phase balanced load systems.

Watts measurement is made on a single phase using line current and phase voltage (115v). For VAR indications the voltage circuit is connected across the other two phases (i.e. line voltage 200v) thus giving a reading in terms of reactive power.

The Watt/Var meter installation comprises an indicator (S104) a thermocouple unit (ACC.43) and a current transformer (S117). The indicator and thermocouple unit are calibrated as a pair and are not replaceable as individual items.

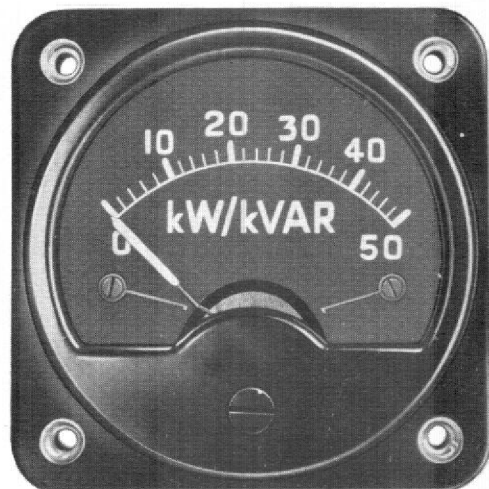
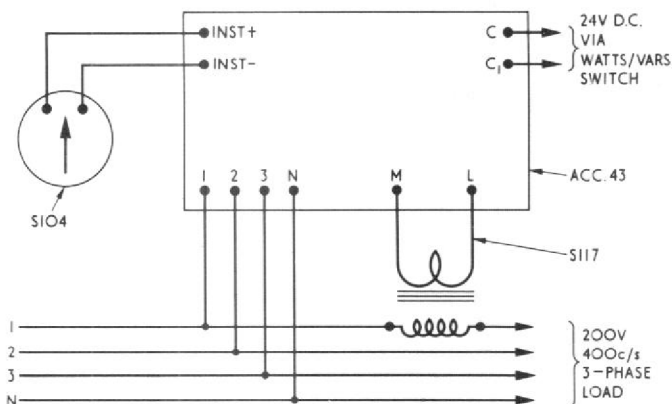
A change-over relay is incorporated in the thermocouple unit for switching the voltage circuits. This relay requires a 24V. DC energising supply and a two position switch "WATTS/VARS" must be provided by the user.

The indicator may be supplied in a small or large S.A.E. case (See S104, Section 1) For details of transformer (S117) see Section 15.

System accuracy: 4% of full scale reading.

	Approx. Weight	Drawing
Large S.A.E. indicator:	15 oz.(425g)	FD.775
Small " "	7 oz.(198g)	FD.652
Accessory Box:	36 oz.(1020g)	FD.1045
Transformer:	20 oz.(567g)	FD.667

#### CIRCUIT DIAGRAM



Model S 104 Form 3  
Typical Presentation

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