

BROMAN 861A Temperature Calibrator

The Broman 861A temperature calibrator is a portable apparatus designed primarily for checking the winding temperature indicators (WTIs) on large oil-cooled power transformers. The calibrator consists of a thermal unit and a control unit connected by a 30 foot cable. The thermal unit is a thermally insulated cylindrical block of aluminum, mounted on a steel frame, which is placed on top of the transformer under test. The WTI probes are removed from the transformer wells and are inserted into test wells in the aluminum block. The block is heated to the desired temperature by an internal cartridge element controlled by the control unit situated at ground level where the WTI instruments are visible and where the associated control contacts are accessible.



SPECIFICATIONS

Temperature range	ambient temperature to 250 ° C
Indication accuracy:	± (0.5% of reading + 0.1° C)
Set point resolution:	± 1 ° C
Display resolution:	± 0.1 ° C
RTD:	100 Ω , TCR = 0.00385 Ω /Ω /° C
Calibration wells:	5 wells; each 6.5 inch deep. Diameters are to be specified by the customer. Available diameters: 0.250, 0.375, 0.500, 0.625, 0.750, 0.875, 1.000 and 1.125
Input power:	1200VA - voltage and frequency to be specified by the customer
Cable:	Interconnecting cable: 30 feet
Dimensions:	Control unit: 7 inch depth x 11 inch width x 10 inch height Temperature block: 13 inch depth x 13 inch width x 17 inch height
Weight:	Control unit: 6.6 lb. Temperature block: 38 lb.

ORDERING INFORMATION

When ordering the 861A please specify the well diameters, power line voltage and line frequency. As many as five well diameters may be specified.

Example:

Well diameters: 2 wells at 0.500 inch, 2 wells at 0.750 inch and 1 well at 0.875 inch

Power line: 220 volt at 60Hz