

# ANSI Potential Burden



**PB-2021-ANSI**

## DESCRIPTION

The ANSI Potential Transformer Burden Model PB-2021-ANSI is designed for loading the Voltage Transformers during accuracy tests as per ANSI Standard C57.13. The PB-2021-ANSI is a dual Input ANSI Burden providing Inputs of both 120V and 69.3V. It can be used alongwith the Etel Automatic Instrument Transformer Test Sets to test VTs as per ANSI Standards.

The Test Sets directly displays the Ratio Correction Factor (RCF) while testing VTs at 60 Hz as specified in the ANSI testing requirements.

The individual Burden elements W, X, M, Y, Z and ZZ are designated at a specific VA value and the Corresponding PF. The Corresponding Impedance ( $\Omega$ ).

Inductance and Resistances at 120V and at 120V/ $\sqrt{3}$ v(69.3V) are also provided as per ANSI standards. These elements are all designed at a 60 Hz Frequency. Each individual Burden element can be connected in the circuit of the Voltage Transformer by the use of switches to carry out the accuracy test at that particular VA rating. The Burdens are rated for continuous operation and for a short time rating at 200% of rated Voltage.

ANSI Standard indicates a Burden specification at a 120V and 69.3V secondary voltage. These standard burden designations have no significance at frequencies other than 60 Hz. The Model PB-2021-ANSI is provided in 2 Boxes.

Characteristics on 69.3 V basis			Characteristics on 120 V basis			Characteristics on standard burdens		
Impedance ( $\Omega$ )	Inductance (H)	Resistance ( $\Omega$ )	Impedance ( $\Omega$ )	Inductance (H)	Resistance ( $\Omega$ )	Power Factor	VA	Designation
384	1.0100	38.4	1152	3.0400	115.2	0.10	12.5	W
192	0.3640	134.4	576	1.0900	403.2	0.70	25.0	X
137	0.3560	27.4	411	1.0700	82.3	0.20	35.0	M
64	0.0894	54.4	192	0.2680	163.2	0.85	75.0	Y
24	0.0335	20.4	72	0.1010	61.2	0.85	200.0	Z
12	0.0168	10.2	36	0.0503	30.6	0.85	400.0	ZZ

## SPECIFICATIONS

Secondary Voltages : 120V and 69.3V  
 Frequency : 60 Hz  
 Accuracy : +5% to -0% of Impedance.  
 $\pm 2$  Electrical degrees for PF  
 for 90 to 110% of rated  
 voltage input

Dimensions : 445mm x 457mm x 292mm (L x B x H)  
 Weight : Approx 35 Kgs each ; Total -70 Kgs.  
 Operating  
 Temperature : -10 to 50 Deg C; Ambient to 90% RH  
**Note: ANSI Potential Burden can also be provided on specific request for any other pairs of Input Voltages for 60 Hz.**



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**Etel Industries – Calibration Laboratory (including on-site calibrations) is NABL - ACCREDITED in electro-technical discipline in accordance to ISO/ IEC:17025/2005.**

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(Specifications subject to change without notice)