

ELECTRONIC BURDEN FOR VOLTAGE TRANSFORMER DAC-PBV-8



When conducting instrument transformer testing, it is necessary to test with the same impedance (burden) as the impedance connected to the secondary of the transformer in the actual usage environment.

Model DAC-PBV-8 is a 50VA electronic burden designed for testing instrument voltage transformer (VT).

By simply inputting values for a burden VA and a burden power factor with the numeric keys, a specific burden setting will be completed.

A wide range of testing voltage up to 200% of the rating is available, and the actual load can be expanded up to 500VA with option expansion units.

Features

- Programmable electronic burden in accordance with IEC 61869-3 (IEC60044-2).
- Desired burden and power factor can be set simply by entering values with the numeric keys.
- Wide range from 1 % to 200% of the rated secondary voltage.
- DAC-PBV-8 supports 0 – 50VA, and the burden can be expanded up to 500VA with optional expansion units.
- USB and GP-IB are provided.
- Max 100 test conditions can be registered in memory for easy operation.

Specifications

Rated Secondary voltage	120V, 115V, 110V, 105V, 100V, 95V, 90V 120/√3V, 115/√3V, 110/√3V, 105/√3V, 100/√3V, 95/√3V, 90/√3V 120/3V, 115/3V, 110/3V, 105V/3V, 100/3V, 95/3V, 90/3V 240V, 230V, 220V, 210V, 200V, 190V, 180V 240/√3V, 230/√3V, 220/√3V, 210/√3V, 200/√3V, 190/√3V, 180/√3V 240/3V, 230/3V, 220/3V, 210/3V, 200/3V, 190/3V, 180/3V
Test voltage range	1% to 200% of the rated secondary voltage
Rated burden setting	0.0 to 50.0 VA The burden can be expanded up to 500VA with optional expanding burden units.

Power factor range	0.1 to 1.0 (0-13VA: lag 0.10 to 0.19, 0-500VA: lag 0.20 to 1.00, 0-25VA: 1.0 to lead 0.80)
Test Frequency	50/60 Hz
Burden setting resolution	Rated burden setting 0 to 4VA : 0.001 VA steps 4.01 to 20VA : 0.01 VA steps 20.1 to 100VA* : 0.1 VA steps 100VA or more* : 1VA steps (*Option expanding burden units are required to achieve more than 50VA)
Power Factor resolution	0.01 steps
Burden setting accuracy	±4% (When test voltage is from 10% to 200% of rating)
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Interface	GP-IB (IEEE-488)/ USB 2.0/1.1
Input power	100 to 240V ±10%, 50/60Hz
Dimensions and weight	W430 x H200 x D450mm (Excluding projections), about 30kg
Option items	50VA Burden expansion unit : DAC-FBV-3 100VA Burden expansion unit : DAC-FBV-4

Option Burden Expansion Unit

DAC-FBV series are optional burden expansion units to expand burden to 100VA, 200VA, 300VA, 400VA and up to 500VA. The devices are connected and controlled by DAC-PBV-8 via serial communication.

DAC-FBV-3: 50VA burden expansion unit
DAC-FBV-4: 100VA burden expansion unit

Configuration of 500VA burden unit:
DAC-PBV-8 x 1 set, DAC-FBV-3 x 1 set, DAC-FBV-4 x 3 sets.



DAC-FBV series
(W430xH200xD450mm)

Connecting diagram

