

PD690 MK2 Family Calibration Check

The PD690 Mk2 family of proving units provide a source of AC voltage to check (prove) voltage indicators and test lamps.

There are currently 4 models in the range - PD430, PD440, PD690, PD700.

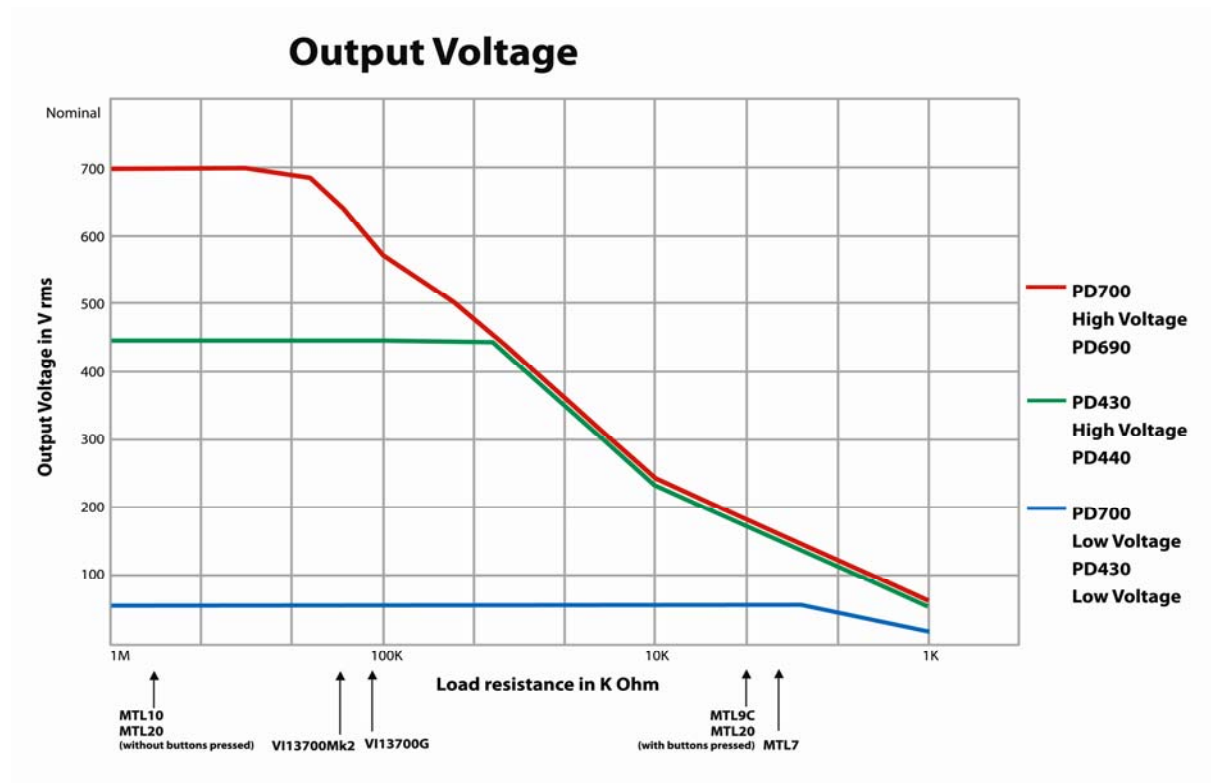
MODEL	Low Voltage	High Voltage	Low Voltage LED	High Voltage NEON	High Current LED	Low Battery LED
PD700	50V	700V	✓	✓	✓	✓
PD690		700V		✓		✓
PD430	50V	440V	✓	✓		✓
PD440		440V		✓		✓

Output voltage is essentially a square wave of nominal 50Hz and can be measured with any reasonable quality multimeter. Voltages will follow the output voltage graph at 20°C with fresh batteries. Note batteries are drained relatively quickly with consumption of approx 2 Amps at low load such as 5K Ohm. Give long periods of rest between intermittent reading episodes for the battery to recover.

High Voltage follows curve +/- 5%

Low voltage (PD430 & PD700 only) 53V +2V -5V into >5KΩ

NB. This document only applies to PD690Mk2 family. Earlier PD690Mk1 uses an entirely different circuit with different output voltage characteristics. Please refer to the PD690Mk1 calibration check document if needed.



Comparison of PD690 MK1 and MK2 front panel detail.



PD690 MK1 Front Panel



PD690 MK2 Front Panel