

SafeTac VRD[®] PVM1

Welder Peak Voltage Meter

Australian Standards 1674.2 2007 Table 3.2.6 (e) states that when a stick (MMA) capable welding machine is used in a category "C" environment . The voltage between the electrode holder and the workpiece while an arc is not present shall not exceed 35 V d.c. peak or 35 V a.c. peak and 25 V a.c. r.m.s.

Note : The voltage displayed on the welding machines voltmeter is the average voltage NOT the peak voltage.

For further information on AS 1674.2 2007 may be obtained from SAI Global

PVM1 is a handheld meter specifically designed to test the peak DC voltage of a stick (MMA) welding machine for compliance to above standard.

Constructed as per AS 1674.2 2007 3.2.6 but with added safety & features of Average voltage display for use when checking calibration of welding machines voltmeter if fitted.

Manufactured using a specially modified high precision analogue to digital Japanese voltmeter

Fitted with a 12.5 Watt 5K variable resistor and a 200 Ohm 50 Watt 1% fixed resistor with heat sink.

All capacitors are rated at 250 VDC or better & 3Amp internal fuse to prevent any surprises when testing higher voltage machines

Input is via 2 x 1000V rated test leads (With insulated banana plugs to allow replacement with standard meter leads if damaged) then protected by an internally fitted 3 Amp fuse

Peak voltage measurement is obtained by connecting the 2 meter input leads to the DC output terminals of the welding machine observing polarity then turning the PVM1 R1 potentiometer to obtain the maximum peak voltage reading as per AS 1674.2 2007 this reading must be less than 35 VDC peak .

In forward or reverse polarity which is indicator by a negative bar symbol on the meter.

Auto Reverse Polarity, Auto Zero Meter

Meter uses a commonly available 9V PP3 battery which is accessible through the rear cover.

Meter is checked for accuracy using a NATA calibrated Fluke Multimeter prior to shipping.

A full NATA calibration certificate is available if required this will incur A NATA calibration lab charge.



PVM1 testing peak voltage on Lincoln 405D

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