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***London Electronics Limited***

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Tel. 01462-850967 Fax. 01462-850968

***Value-Master Range***

**Model PRO-J**

1/2 digit process panel meter with Excitation

**User's Guide**

Doc. PROJMLON.PM5 Rev. 1

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# IMPORTANT !



Any alteration to jumpers, or connections to the meter must NOT be made with power removed from the meter. DO NOT operate the meter out of its case, as LETHAL voltages will be present on the circuit board.

DO NOT touch ANY of the circuitry when powered.

USE an INSULATED trimming screwdriver when adjusting zero or span.

REPLACE the front cover whenever the meter is extended.

USE a SPLASHPROOF cover if the front panel environment is likely to be wet or very dusty.

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**Thank you for choosing to use a quality London product.**

**When installing your meter, please be sure to check that the model number, supply voltage, excitation voltage and current rating is suited to your application.**

Instructions are given here to help you to configure the meter yourself if necessary. If in doubt about any aspect, please ask your Distributor. We will be glad to assist.

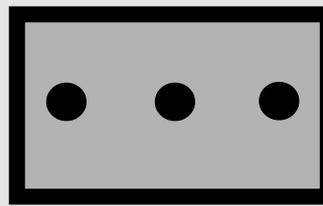
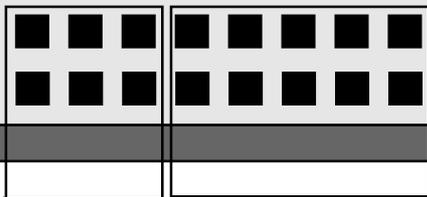
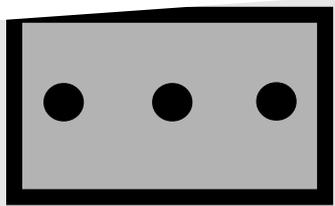
When calling, please mention the model number, serial number and meter type, so that we can deal with your enquiry efficiently.

*Suggestions for product improvement are welcomed and highly appreciated.*

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# Rear Panel Jumper Selection

Use tweezers to remove jumpers

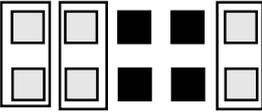
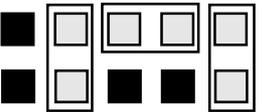
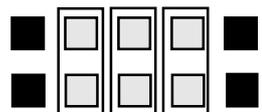
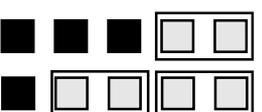
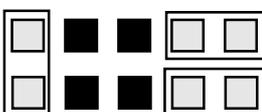
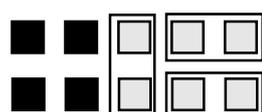


Excitation Voltage

24 VDC

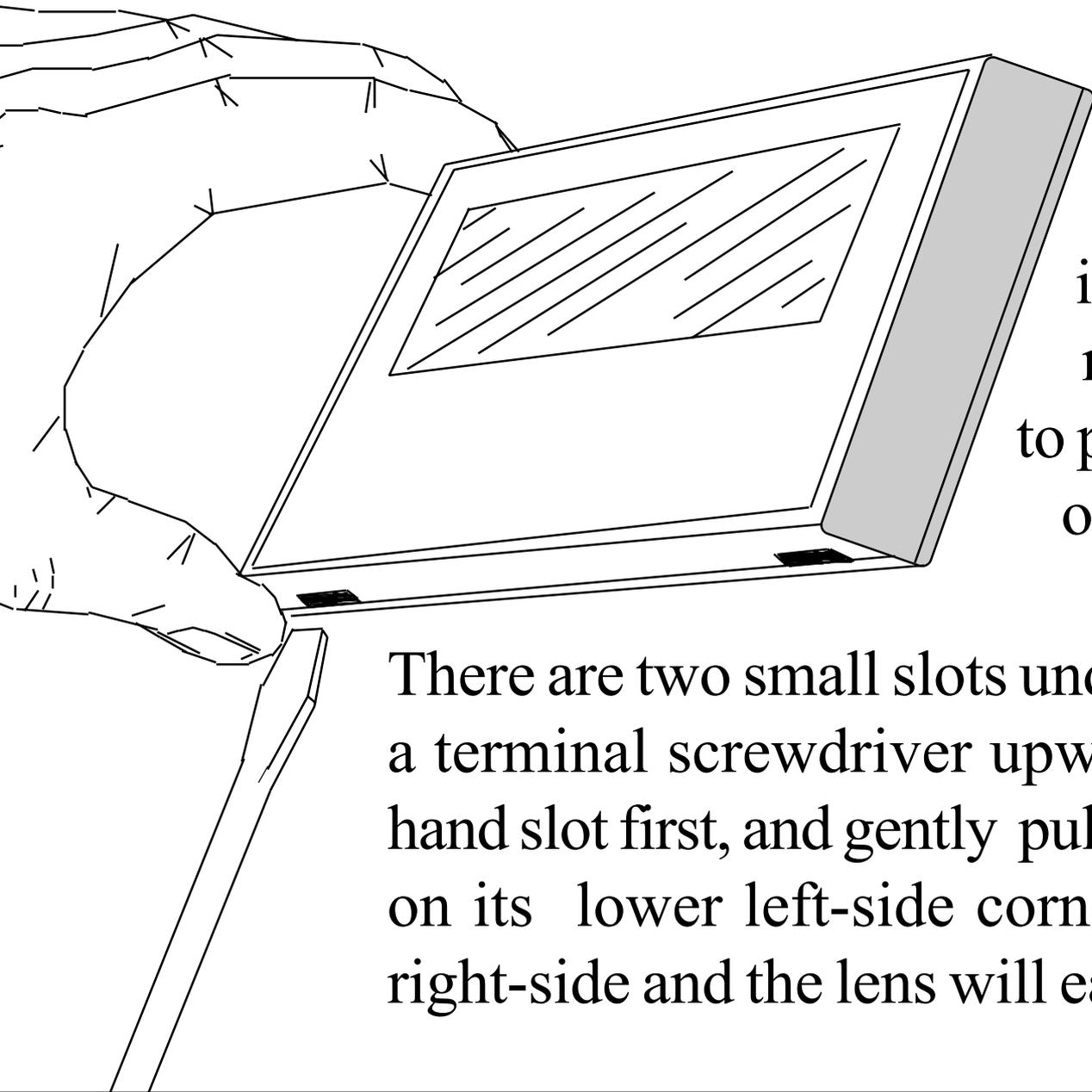
10 VDC

Input Signal Range

	4-20mA		0-10V
	0-1 mA		0-5V
	1-5 V		0-10V
	0-10 V		

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# Removing the front Bezel



The lens  
has been designed  
to remain  
in place under  
normal conditions  
to prevent accidental  
or casual removal.

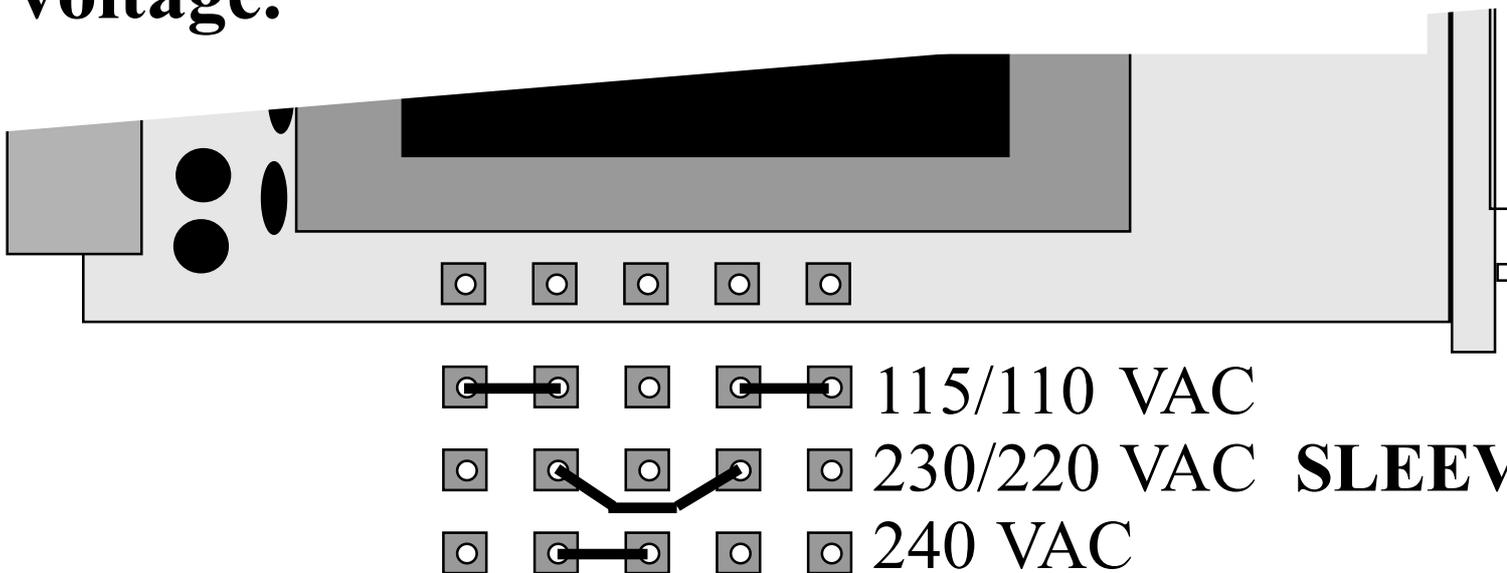
There are two small slots under the bezel. Use  
a terminal screwdriver upwards into the  
hand slot first, and gently pull the bezel free  
on its lower left-side corner. Repeat on the  
right-side and the lens will easily detach.



# Power Voltage Selection



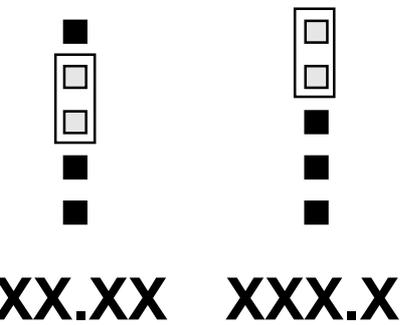
You need to change the power voltage setting, remove the front panel, and the small #1 POSI screw in the bottom surface of the case, near the back. Withdraw the whole assembly from the front. Cut and solder links in new position, as required. Replace assembly, screw and front cover. **Remove any labelling on the meter to show the new power voltage.**



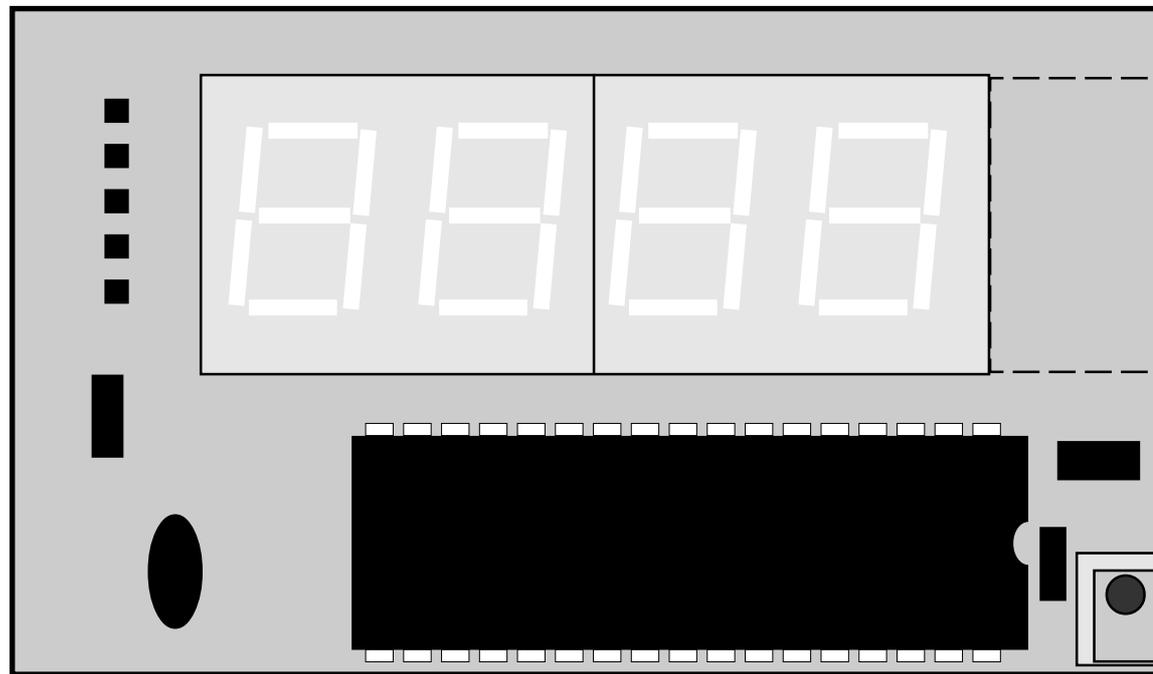
# Decimal Point Position

Standard meter allows you to select the decimal point position by moving the front lens, which reveals a set of push-on jumpers below.

Field-on option allows the decimal point to be selected remotely via contact closures. See 'Connection Details' page.

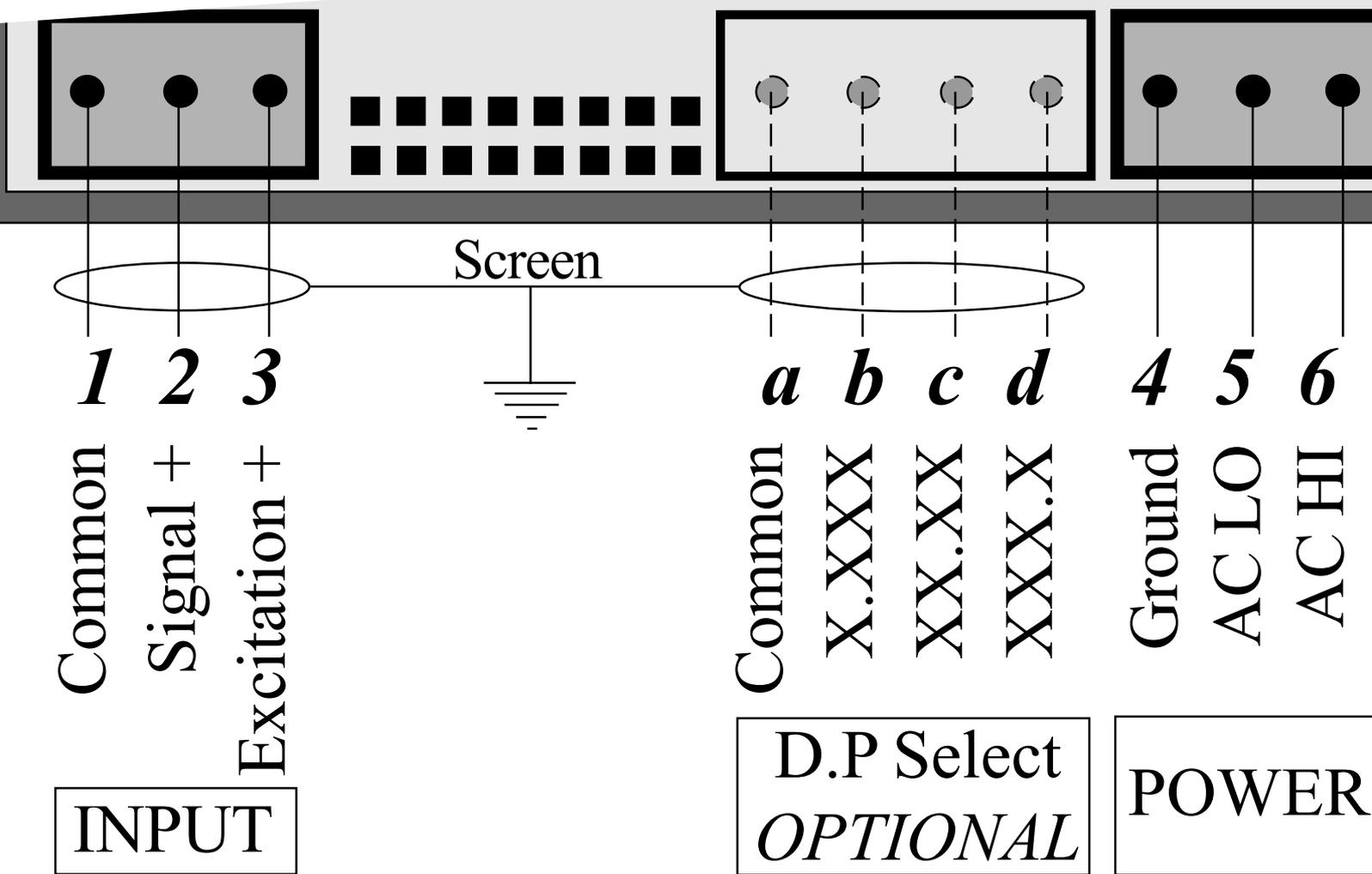


Any zero option is added to the right of the digits



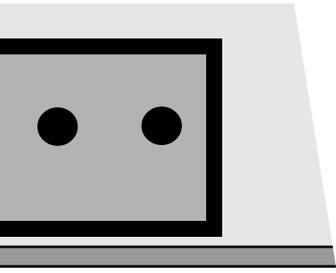
# General Connection Details

Rear view of the meter

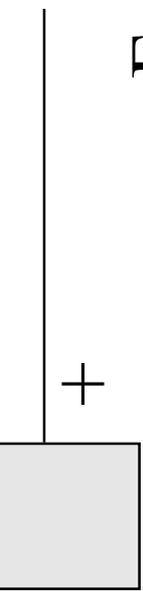


All cabling should be carried out in screened, twisted pair cable. The screen should be grounded only, to ensure minimal pickup of electrical interference. Route signal cables away from electrical noise, such as solenoids, discharge lighting etc.

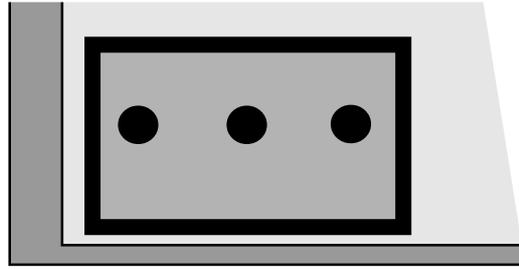
# Input Connection Examples



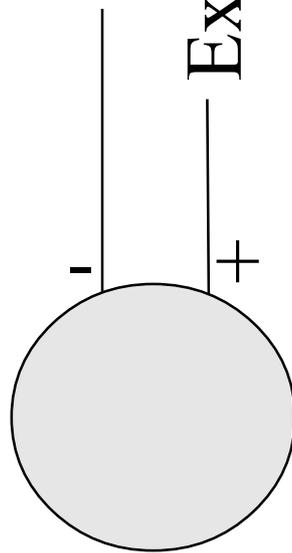
Signal +  
Excitation +



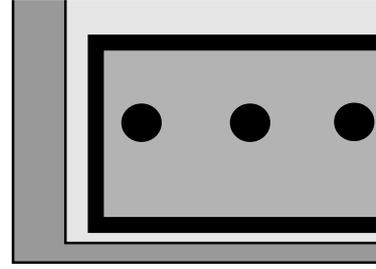
Transducer



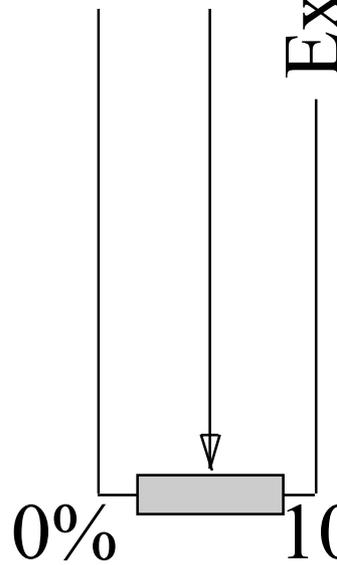
Common  
Signal +  
Excitation +



2 Wire Transmitter



Common  
Signal +  
Excitation +



SLIDEWIRE

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# Panel Installation

meter is designed for installation into a metal panel  
thickness between 1mm and 5mm



**CUTOUT 45mm by 92mm  
Sharp, 90 degree corners  
Tolerance +1mm, -0mm**

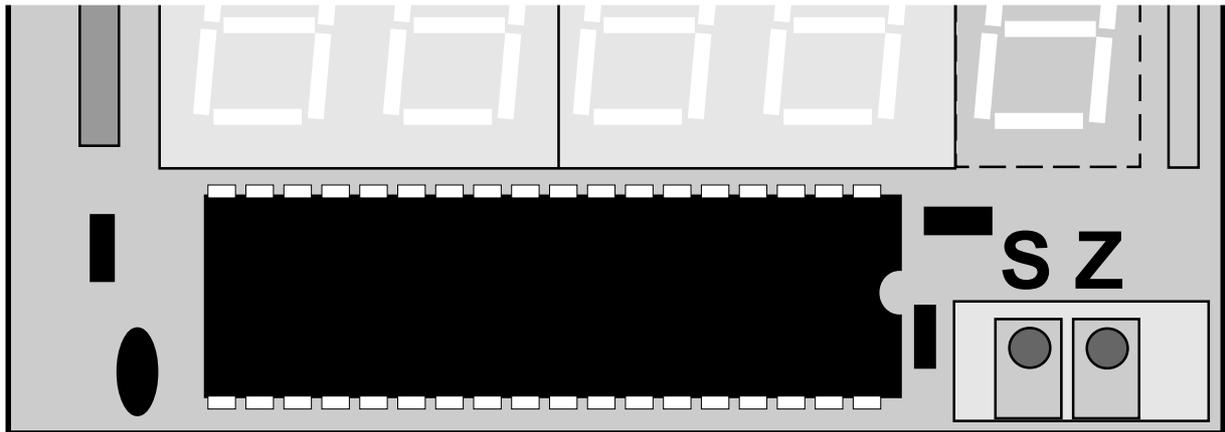


Remove the two #2 POSI screws from the rear of the  
U-Bracket. Slide the meter into the panel  
U-Bracket and Screws. Tighten sufficient to  
fit. Do not overtighten or damage may occur  
. A safety cutoff device is advised to remove power  
panel is opened, to prevent risk of electrical shock

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# Adjustment and Calibration



When you will be using the excitation supply, first check that the supply is providing the correct voltage

Apply 0% input signal and adjust the zero pot (Z) for 0% of the full display range

Apply 100% input signal and adjust the span pot (S) to match the full range of display range.

Repeat steps 1) and 2) until no further adjustments are necessary

Apply 50% signal and the display should read 50% of range

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# Warranty

product is covered by a 2 year warranty, during which time we will put right or replace any meter found faulty through bad workmanship or materials. This warranty does not cover damage caused by misuse or accident. As the meter is a vital component in your process, you should consider the purchase of a spare, to cover the possibility of a failure, as we cannot guarantee immediate replacement or repair.

We believe these instructions to be accurate, and the product is competently manufactured and tested. However, we cannot make any claims to the suitability of this product for any application for which it will be put to service. This choice and the responsibility for this choice will ultimately be the user's.

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