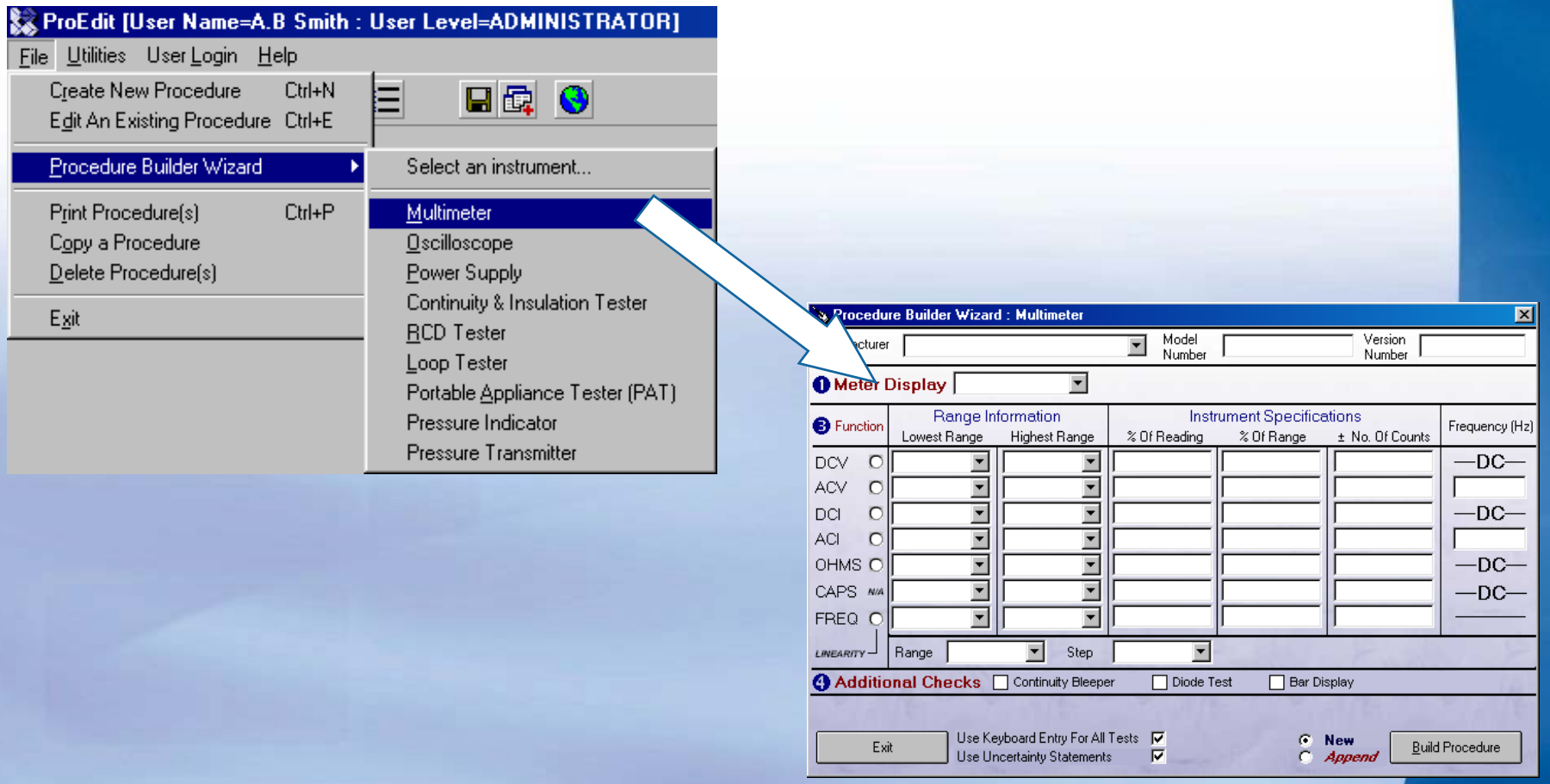
PROEDIT

WRITING A PROCEDURE USING THE BUILT-IN PROCEDURE WIZARD

ProEdit :: Writing a Procedure
Step 1

➔ **Start ProEdit**

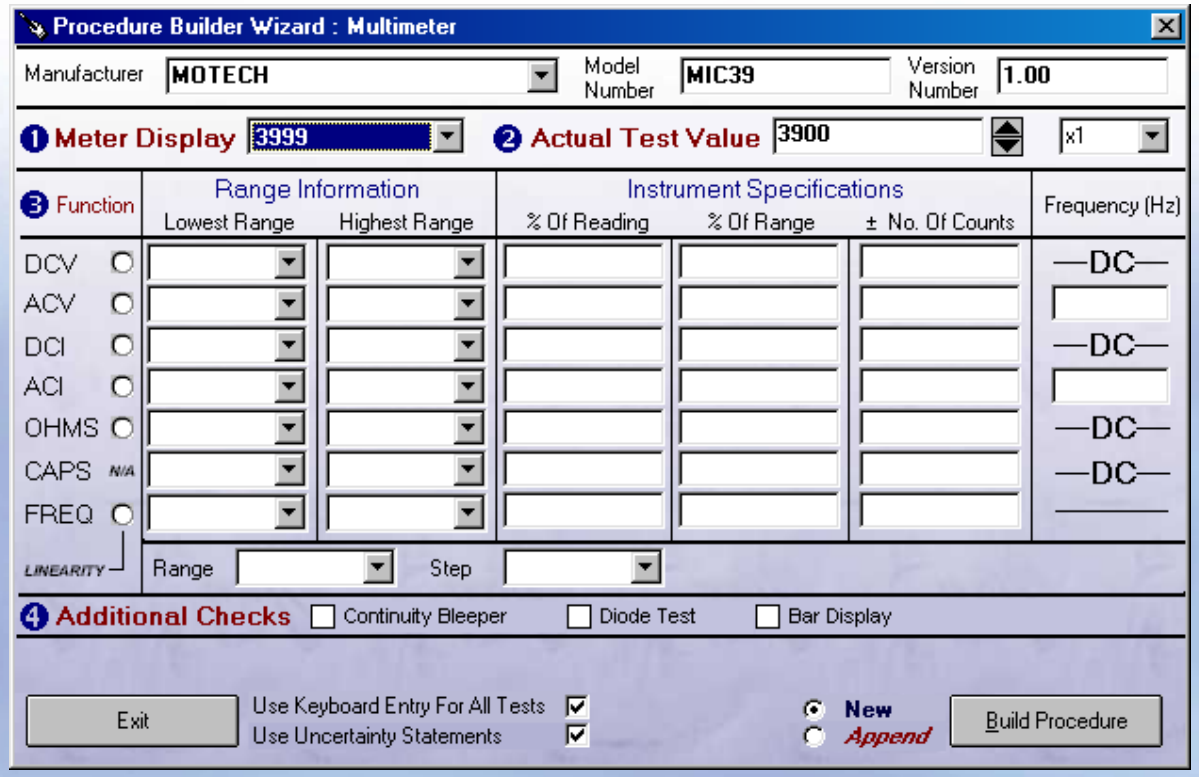
➔ **Select File → Procedure Builder Wizard → Multimeter**



ProCal :: Writing a Procedure
Step 2

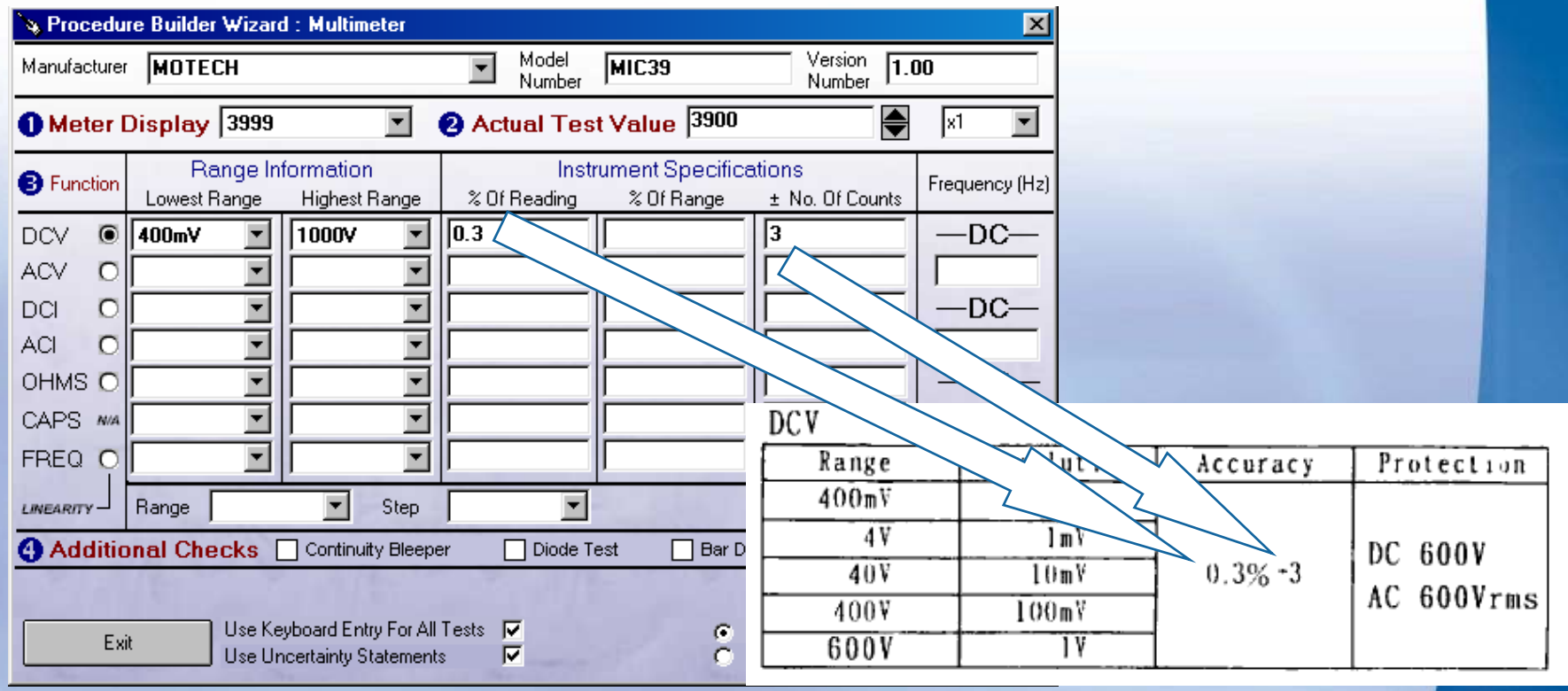
➔ **Enter Manufacturer, Model Number and Version number**

➔ **Select Meter Display as 3999**
The actual test value is set as 3900
(to ensure over range is not reached)



ProCal :: Writing a Procedure
Step 3

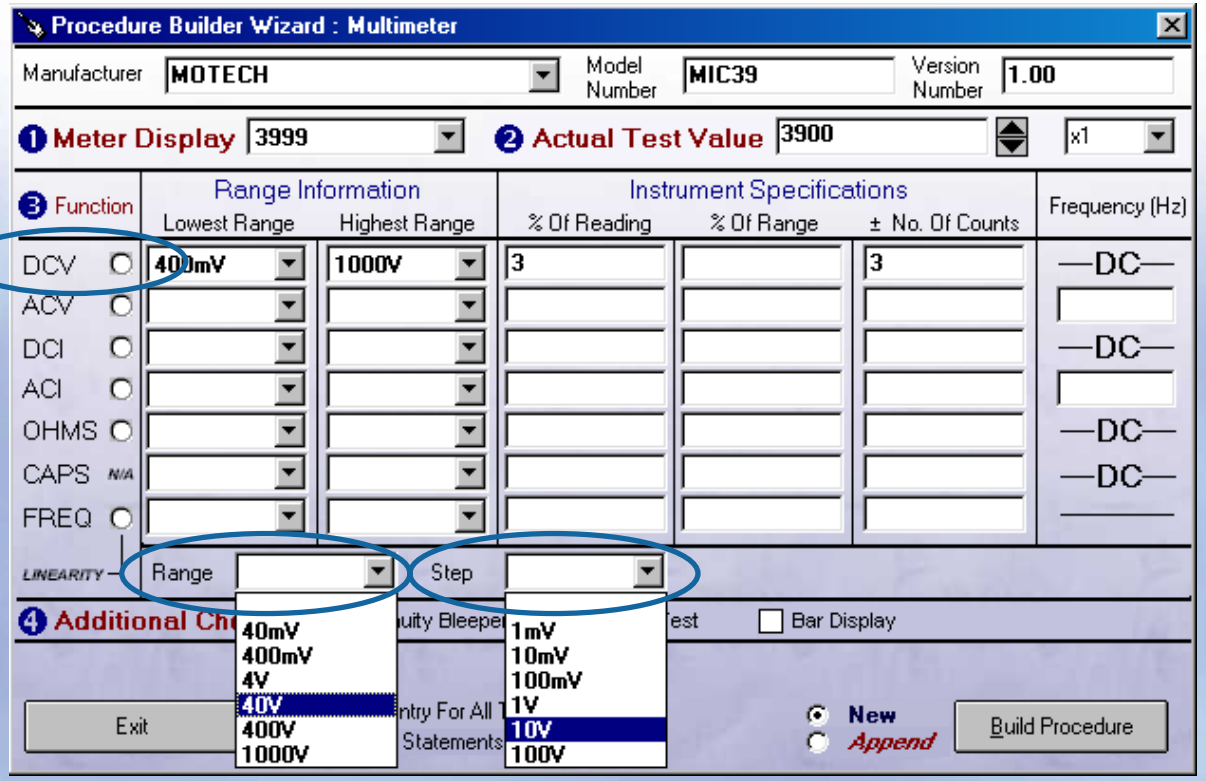
- ➔ **For DC Voltage select the Lowest range as 400mV**
- ➔ **Select 1000V for the highest range – this will be edited after the wizard has finished to change this to 600V**
- ➔ **Enter the specification as detailed in the manufacturer handbook (shown below)**



ProCal :: Writing a Procedure
Step 4

To create a *linearity* section on the 40V range in 10V steps :

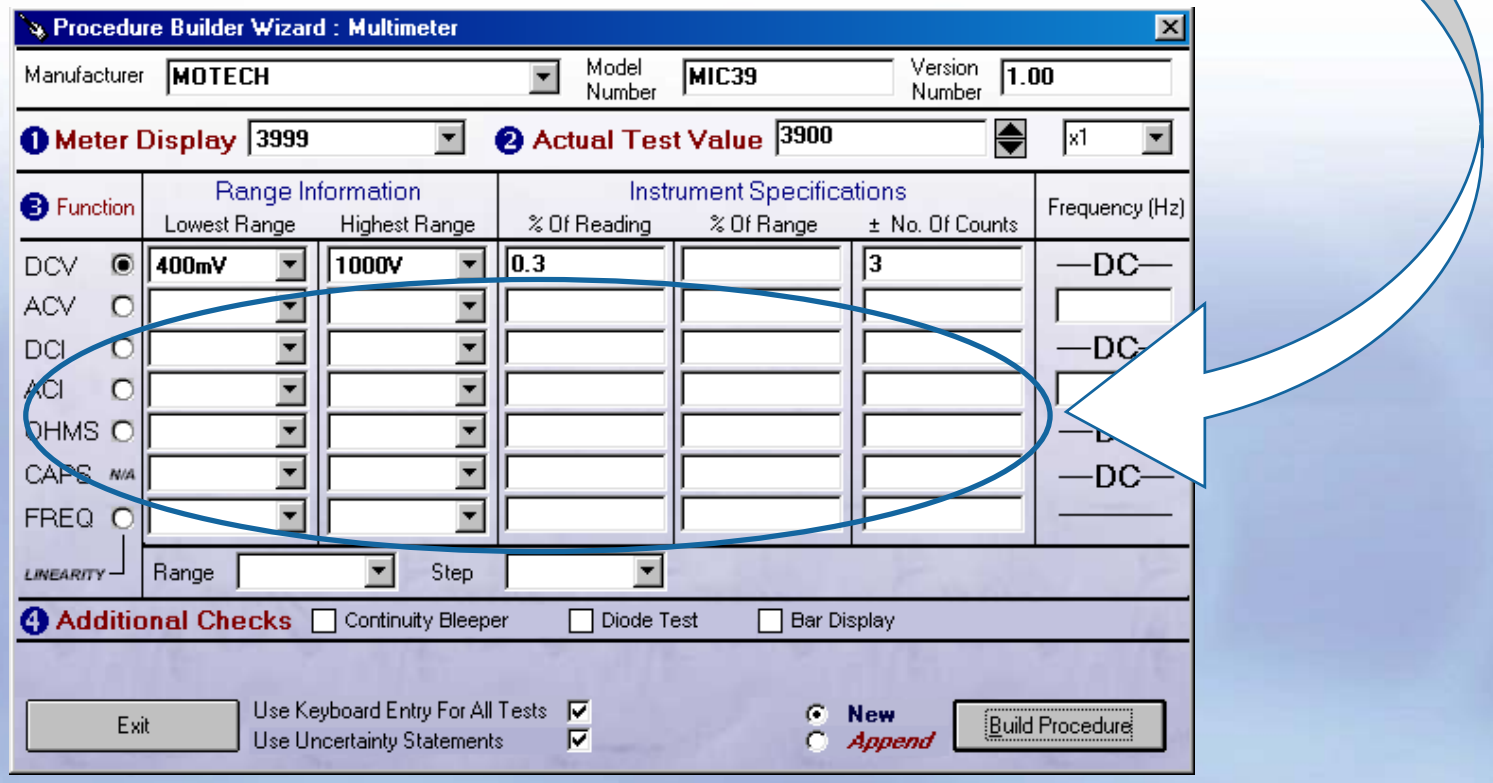
- ➔ **To set linearity for DC Voltage, click on the option next to the DCV title**
- ➔ **In the range drop down list, select 40V**
- ➔ **In the step drop down list, select 10V**



Linearity can be set for one specific function only

ProCal :: Writing a Procedure
Step 5

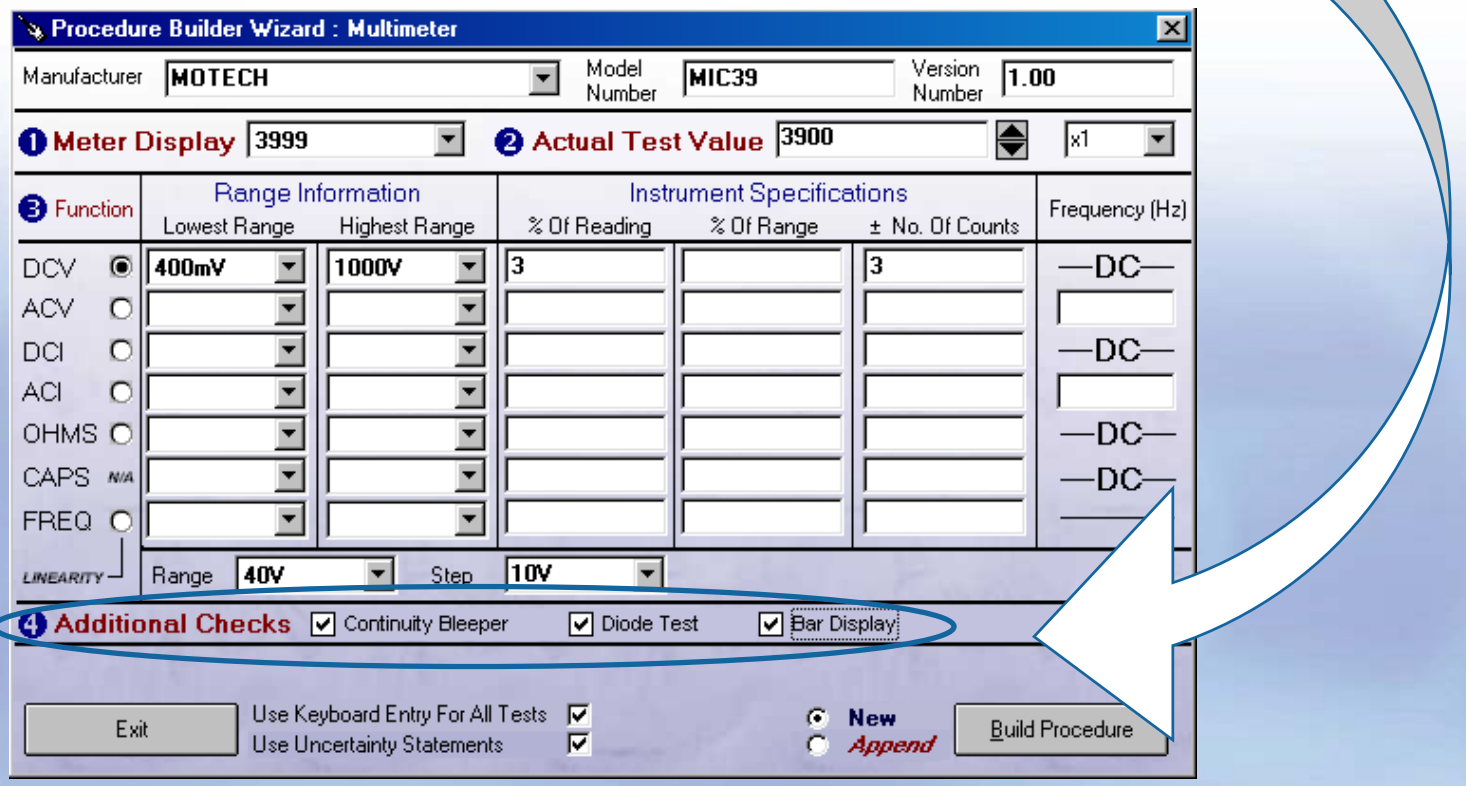
➔ **Complete any other functions to add these tests to the procedure – note for ACV and ACI a frequency can also be entered.**



ProCal :: Writing a Procedure
Step 6

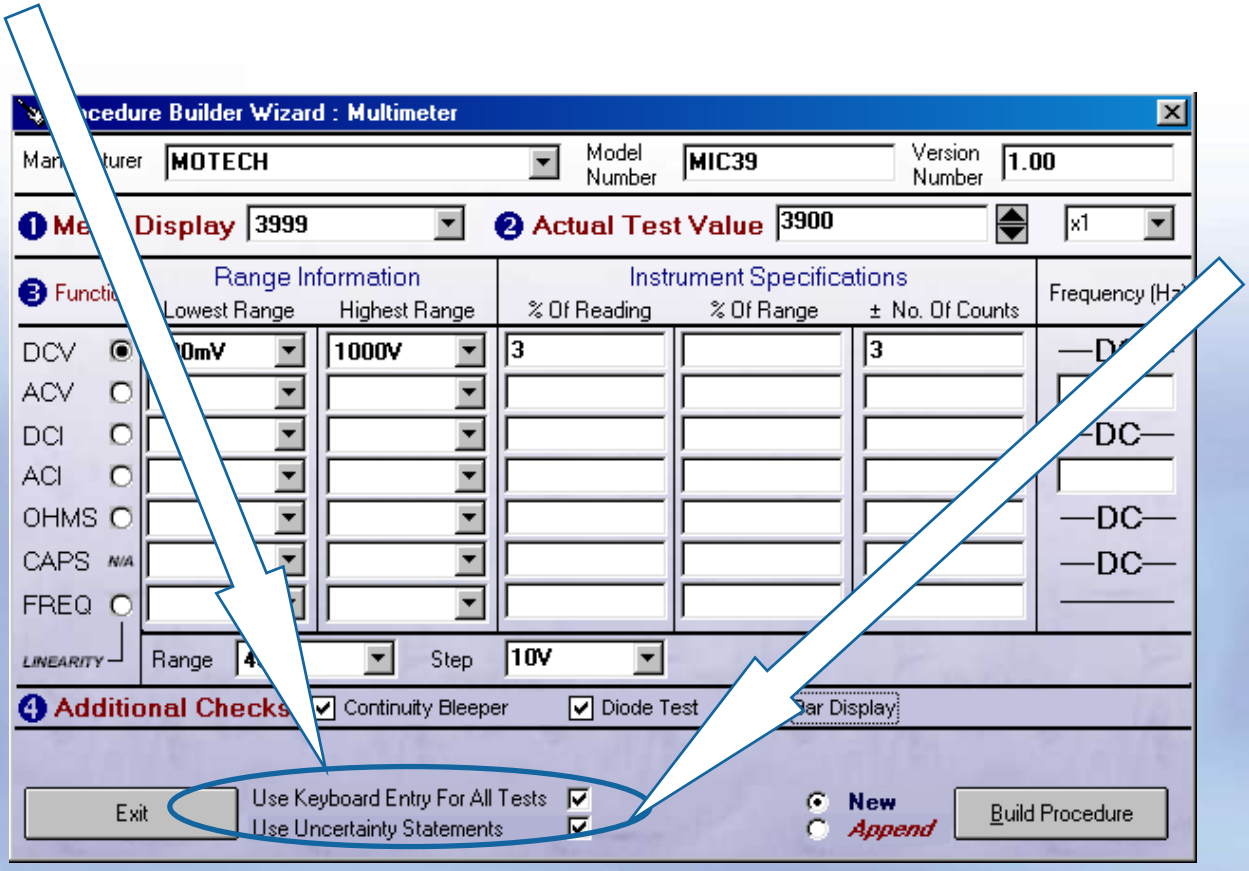
Additional pass/fail checks can be performed on the following :

- ➔ **Continuity beeper**
- ➔ **Diode test**
- ➔ **Bar Display**



ProCal :: Writing a Procedure
Step 7

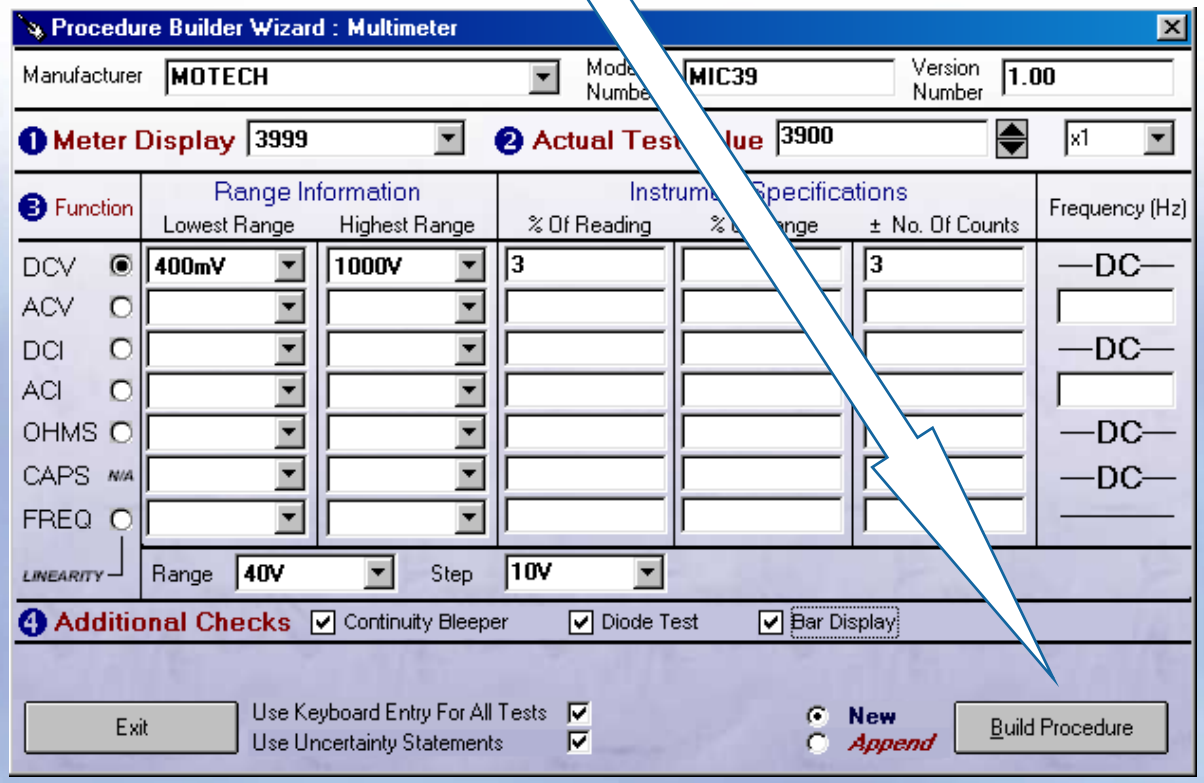
The reading input method is set to keyboard entry as default (this is the most suitable for digital multimeters) – if the multimeter is analogue, this can be de-selected and the procedure will be set to deviate the calibrator.



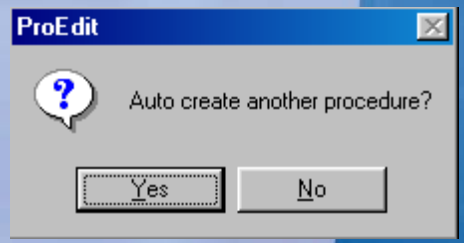
The Use Uncertainty Statements option will automatically select the correct uncertainty statements for the procedure, based on the functions selected.

ProCal :: Writing a Procedure
Step 8

Click on the Build Procedure button to proceed



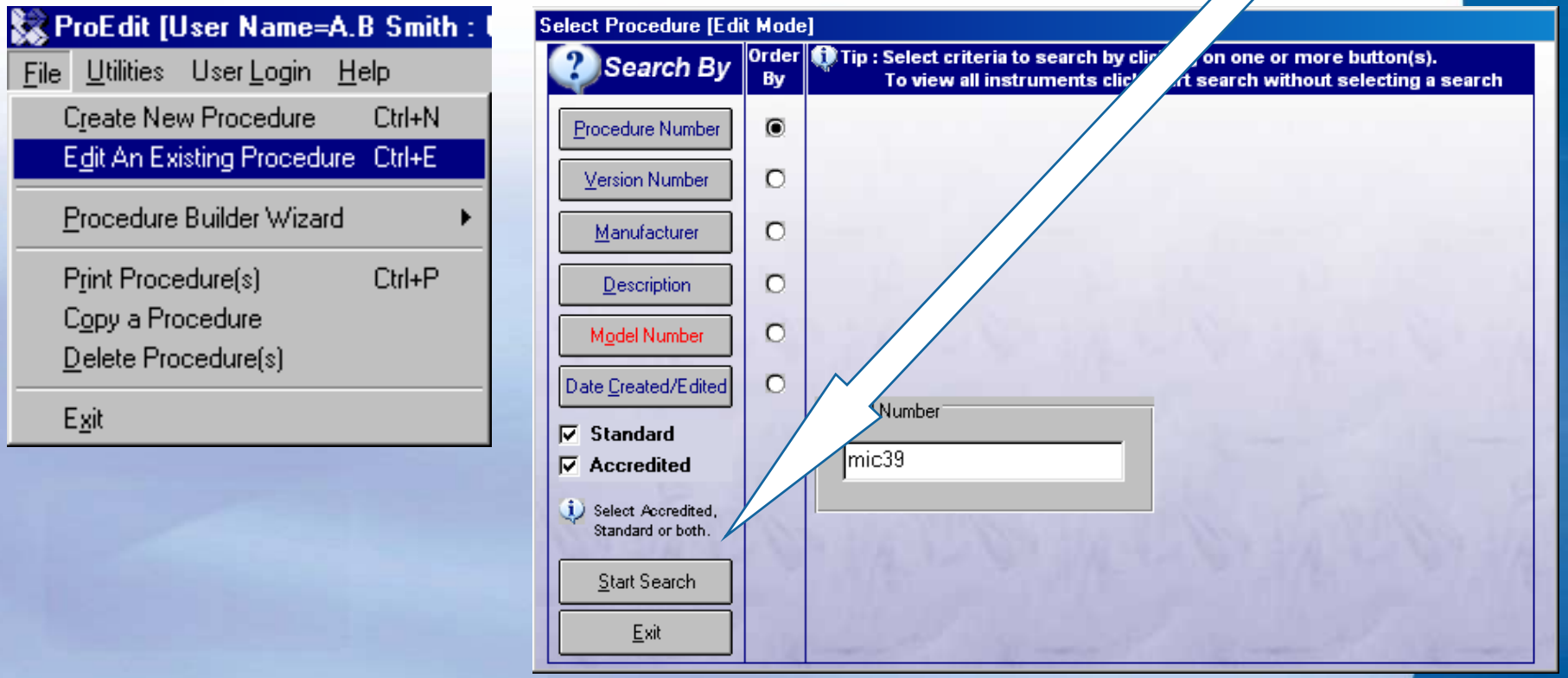
When this message appears click No to close the screen or Yes to create another procedure



ProCal :: Modifying a Procedure
Step 1

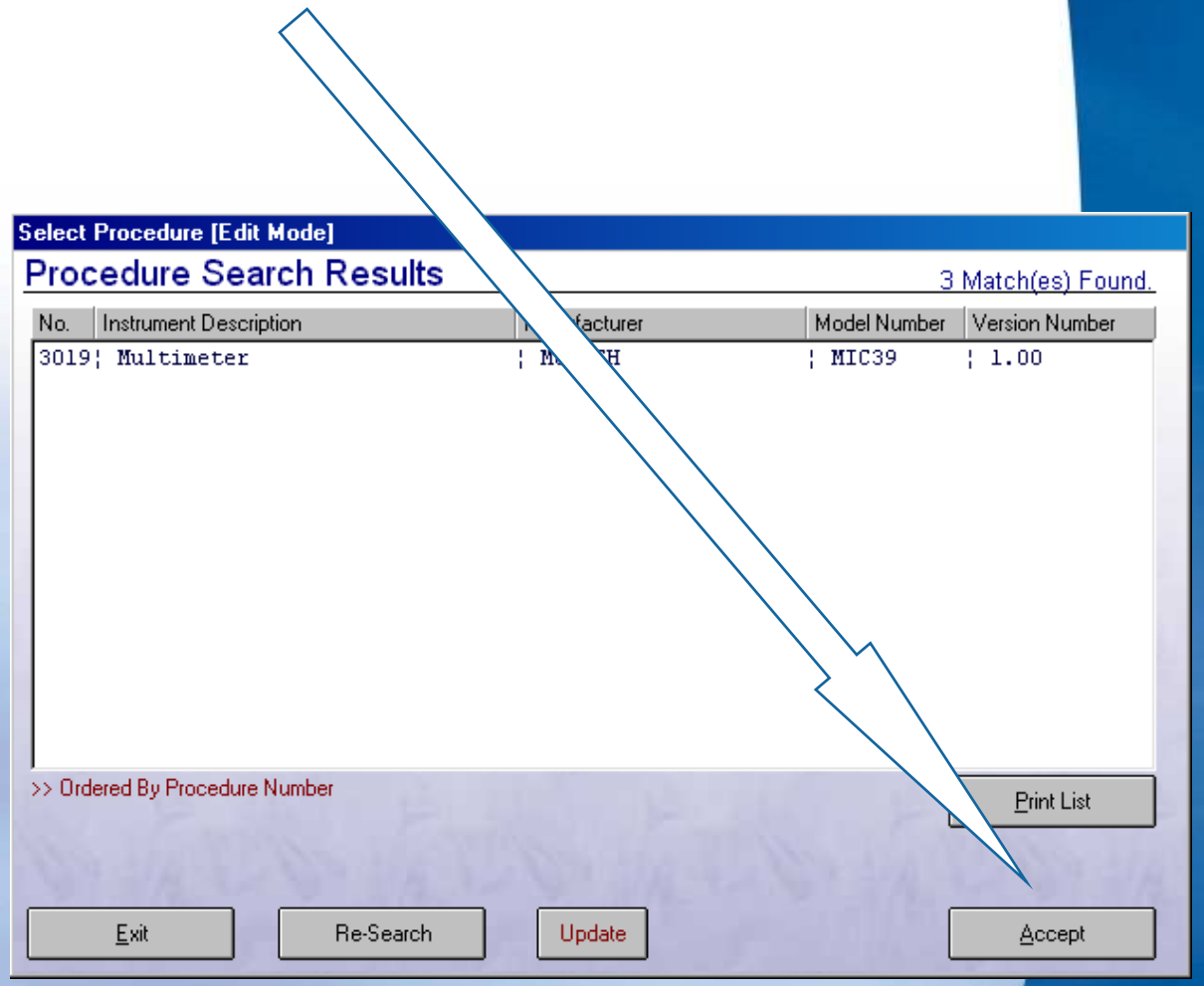
Now the procedure has been created, in this case it needs the DCV highest range edited to be 600V instead of 1000V.

➔ **Select File > Edit An Existing Procedure**
➔ **Select Model Number and enter MIC39, then click Start Search**



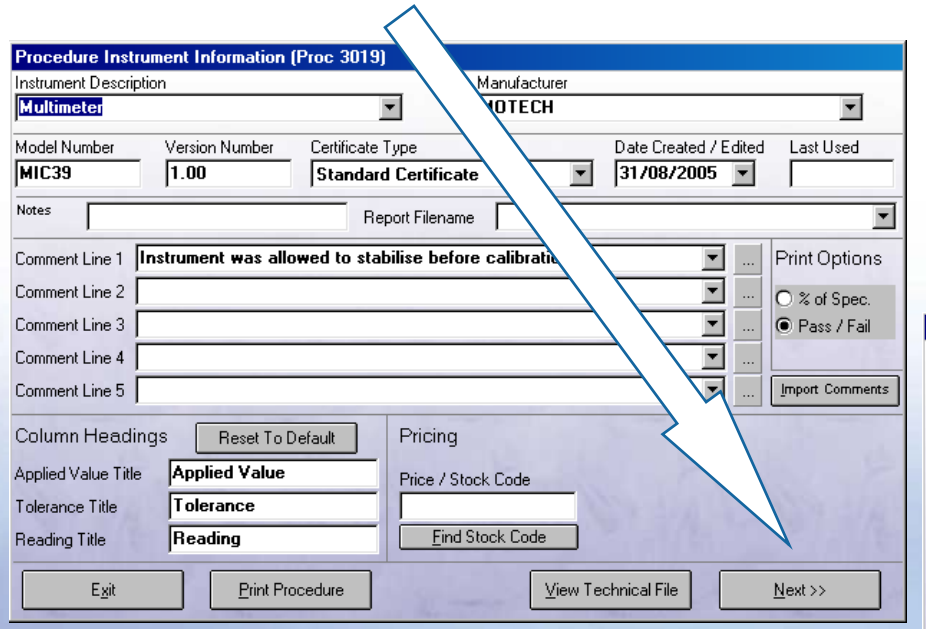
ProCal :: Modifying a Procedure
Step 2

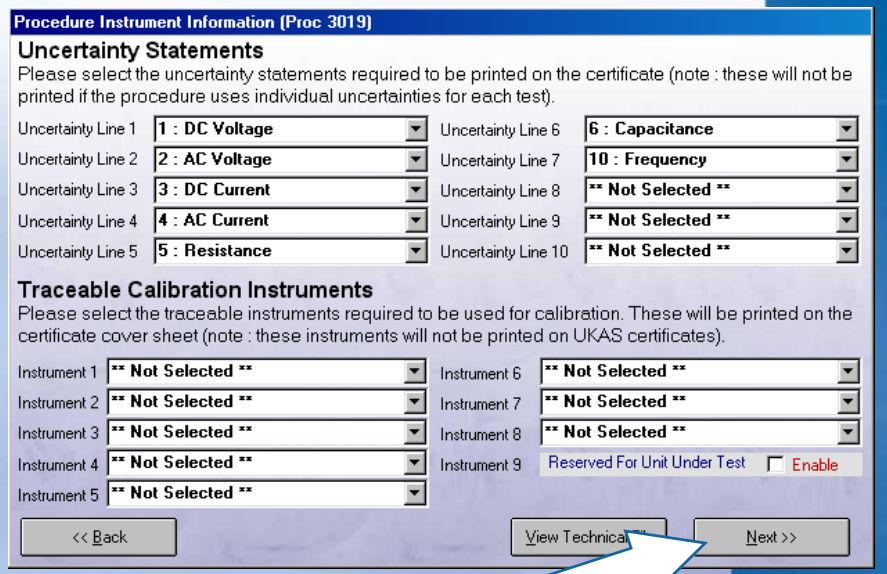
➔ **The MIC39 procedure will be listed, select and click Accept**



ProCal :: Modifying a Procedure
Step 3

➔ **The procedure instrument information screen will be displayed – click Next to continue.**

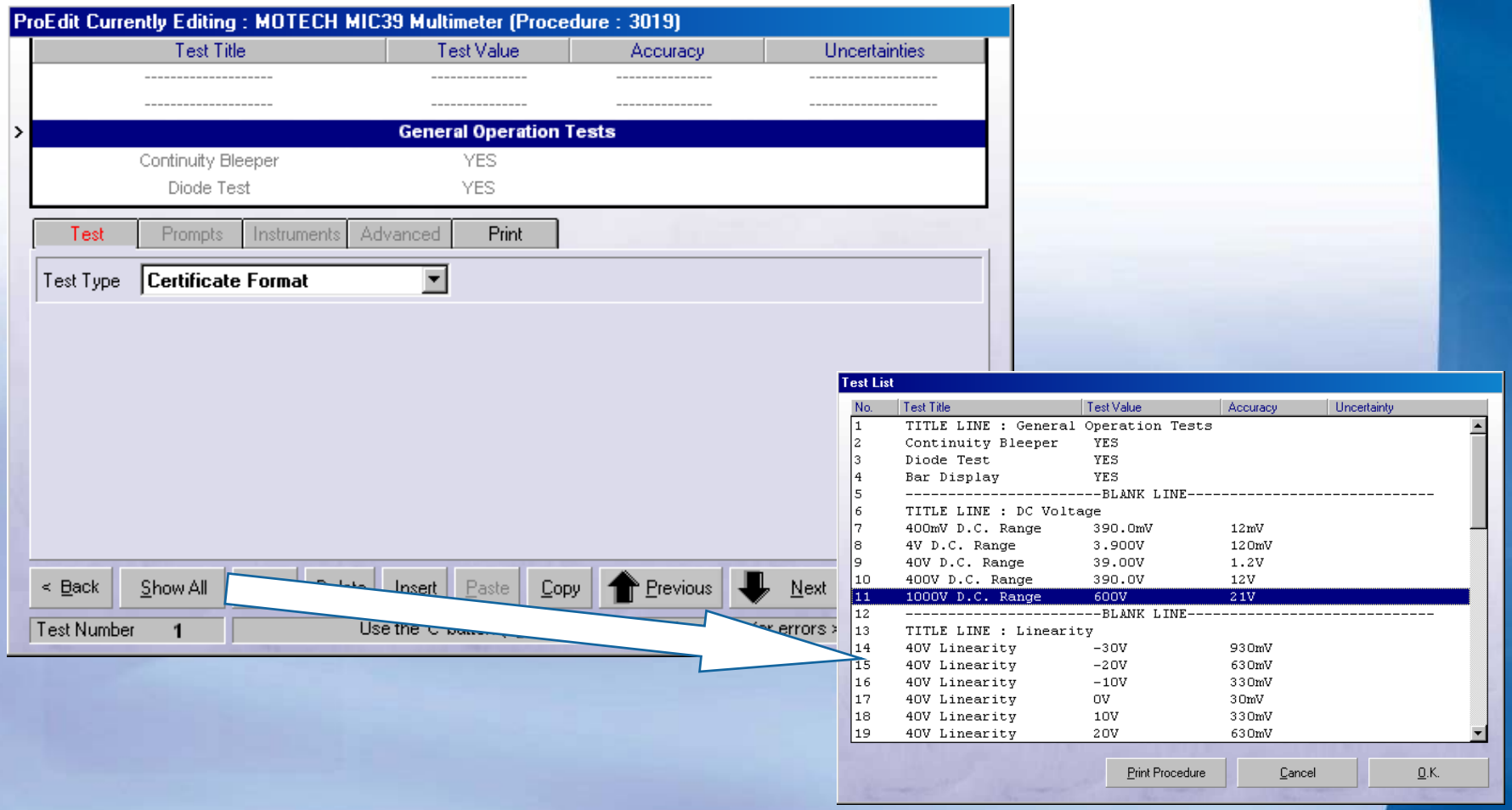




➔ **Uncertainty statements & traceable instruments screen will be displayed – click Next to continue.**

ProCal :: Modifying a Procedure
Step 4

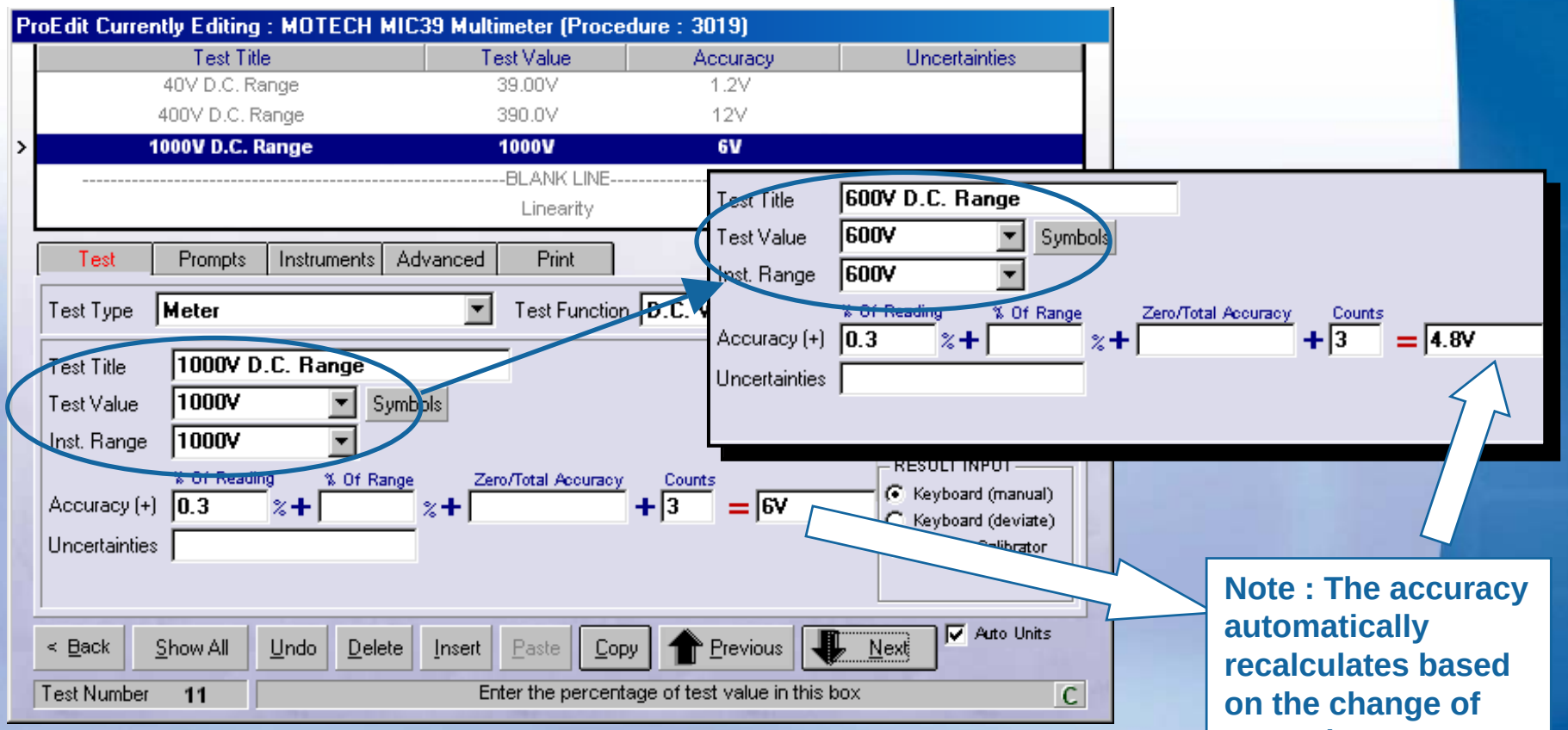
➔ Click the Show All button – a scrollable list will display all the procedure tests – select test 11 (1000V D.C. Range) then click OK



ProCal :: Modifying a Procedure
Step 5

➔ **This test needs to be changed from 1000V (as set by the wizard) to 600V as per the Motech specification**

➔ **Change the test title, the test value and the Inst. Range boxes to 600V**



Note : The accuracy automatically recalculates based on the change of test value

ProEdit :: Additional Procedure Builders

ProEdit provides additional procedure builder wizards for the following types of instrument :

These wizards are designed to automate as much as possible the writing of a procedure.

The wizard will allow 95% of the hard work to be done automatically, with only minor changes required to ranges / accuracies where necessary.

ProEdit :: Oscilloscope Procedure Builder

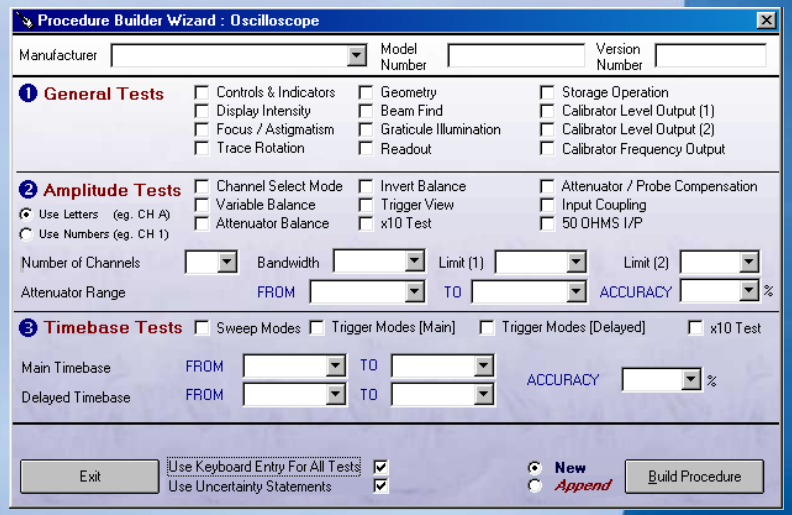
This function provides automatic creation of Oscilloscope procedures, including the following functions :

- General operation checks (pass/fail type tests)
- Amplitude
- Timebase
- Bandwidth (frequency sweep)

The procedure builder allows the Setup of multiple channels using Either number of letter channel Identifiers e.g. Channel A,B,C etc or Channel 1,2,3 etc.

The procedure can be configured to use uncertainty statements or to Implement the automatic uncertainty calculation system.

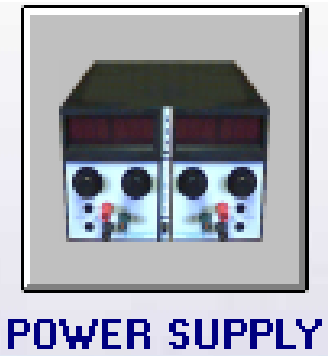
OSCILLOSCOPE



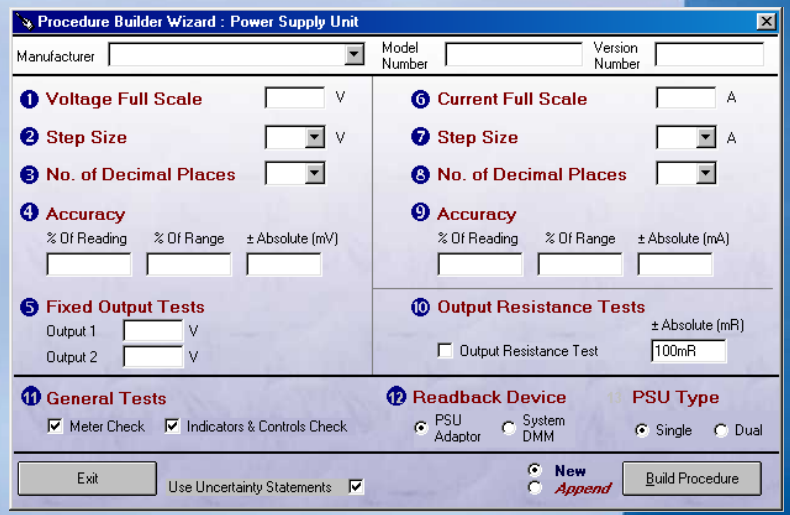
ProEdit :: Power Supply Procedure Builder

This function provides automatic creation of power supply procedures, including the following functions :

- Voltage ranges – with custom step size
- Current ranges – with custom step sizes
- 2 Fixed output function tests
- Output resistance test



The procedure can be configured to use the Transmille power supply calibration adaptor (recommended as this provides all the required functionality including a built in current load).
Use of a normal multimeter for voltage Readings and General type tests for current measurements (obtained using other methods) is also supported.

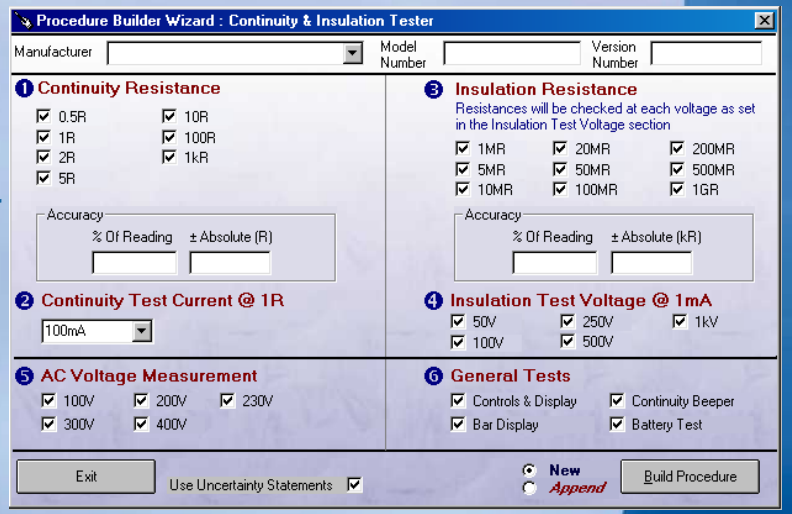


ProEdit :: Insulation Tester Procedure Builder

- This function provides automatic creation of insulation tester
- procedures, including the following functions :

- Continuity resistance
- Continuity test current
- Insulation resistance
- Insulation test voltage
- AC voltage measurement
- General operation checks

- This procedure requires use of a
- Transmille 2100 Electrical Test
- Equipment Calibrator.

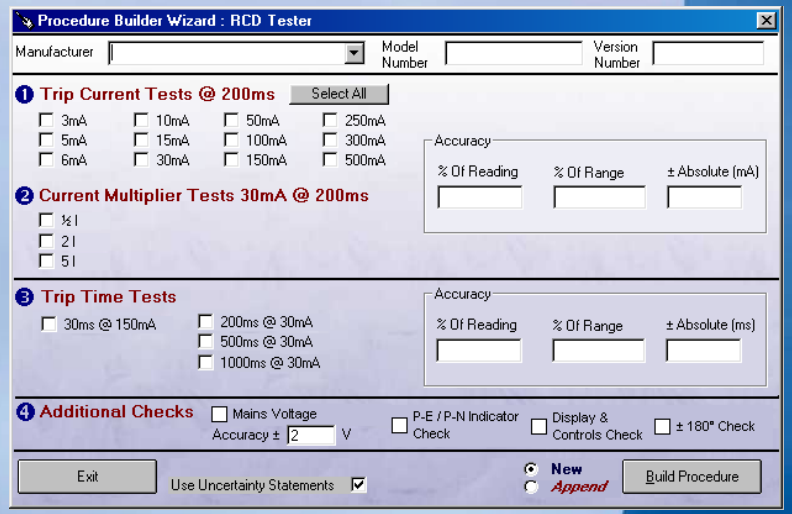


ProEdit :: RCD Tester Procedure Builder

- This function provides automatic creation of RCD tester
- procedures, including the following functions :

- Trip current tests
- Trip current multiplier tests @ ½, 2 & 5I
- Trip time tests
- Additional checks (including mains voltage)

- This procedure requires use of a
- Transmille 3200 Electrical Test
- Equipment Calibrator.

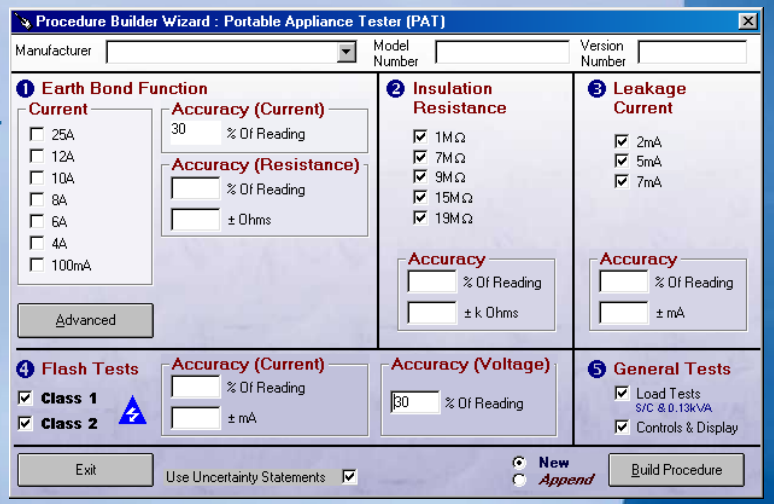


ProEdit :: PAT Procedure Builder

- This function provides automatic creation of
- Portable Appliance Tester procedures,
- including the following functions :

- Earth Bond (including linearity)
- Insulation Resistance
- Leakage Current
- Flash (Class 1 & 2)
- Load Tests (0.13kVA & S/C)

- This procedure requires use of a
- Transmille 2100 Electrical Test
- Equipment Calibrator.

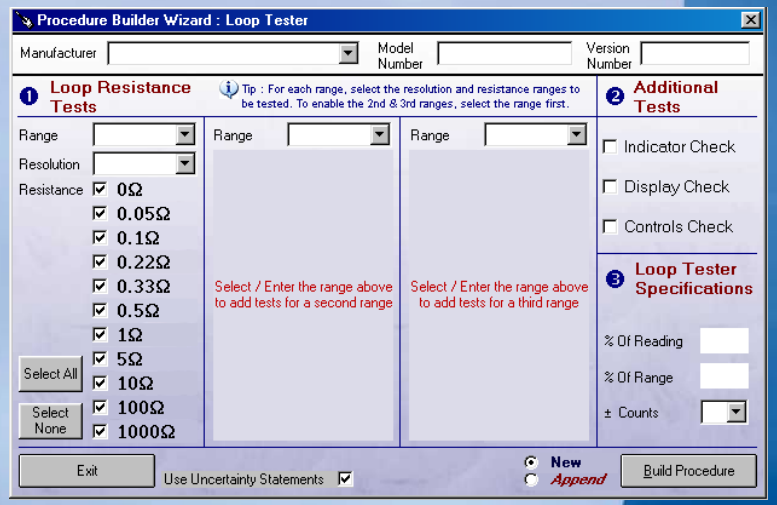


ProEdit :: Loop Tester Procedure Builder

- This function provides automatic creation of Loop tester
- procedures, including the following functions :

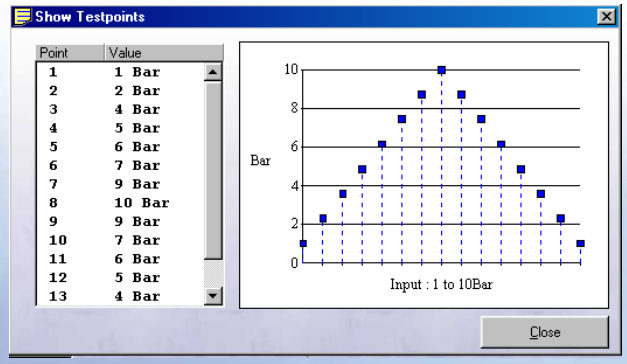
- Loop resistance (up to 3 ranges)
- General checks

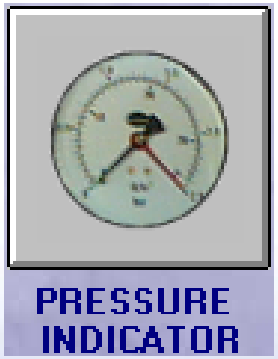
- This procedure requires use of a
- Transmille 3200 Electrical Test
- Equipment Calibrator.



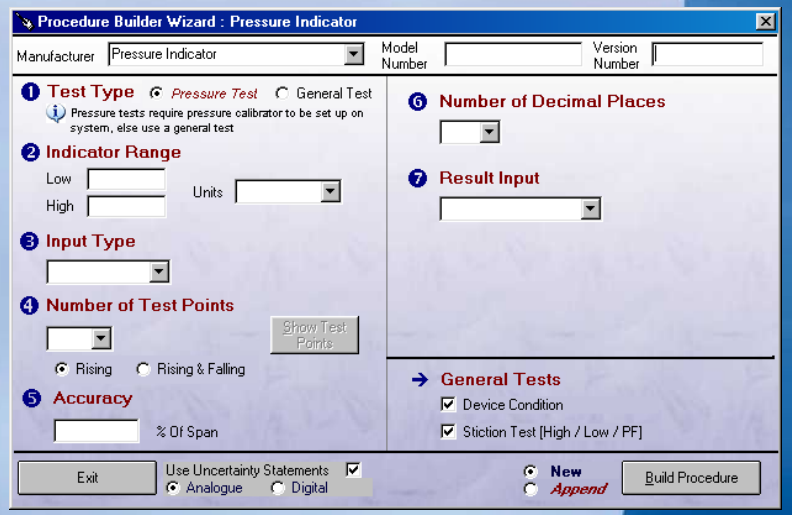
ProEdit :: Pressure Indicator Procedure Builder

This function provides automatic creation of pressure Indicator procedures.
Tests are set up as a pressure span (min/max) with test points automatically determined and displayed graphically :



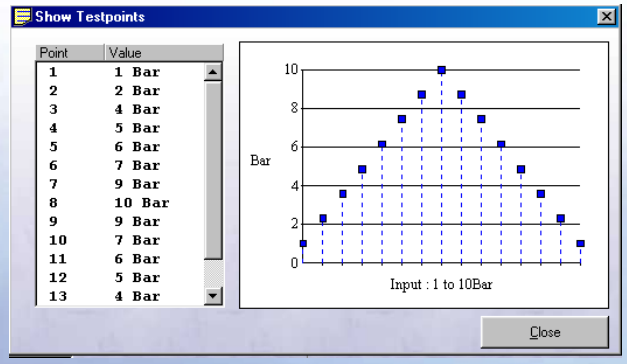


Tests can be set to use a Druck 515 pressure calibrator or to use General type tests for manual data entry.



ProEdit :: Pressure Transmitter Procedure Builder

This function provides automatic creation of pressure transmitter procedures.
Tests are set up as a pressure span (min/max) with test points automatically determined and displayed graphically :



Tests can be set to use a Druck 515 pressure calibrator or to use General type tests for manual data entry.