



# PROEDIT

WRITING MULTI FUNCTION  
PROCEDURES USING THE  
APPEND MODE

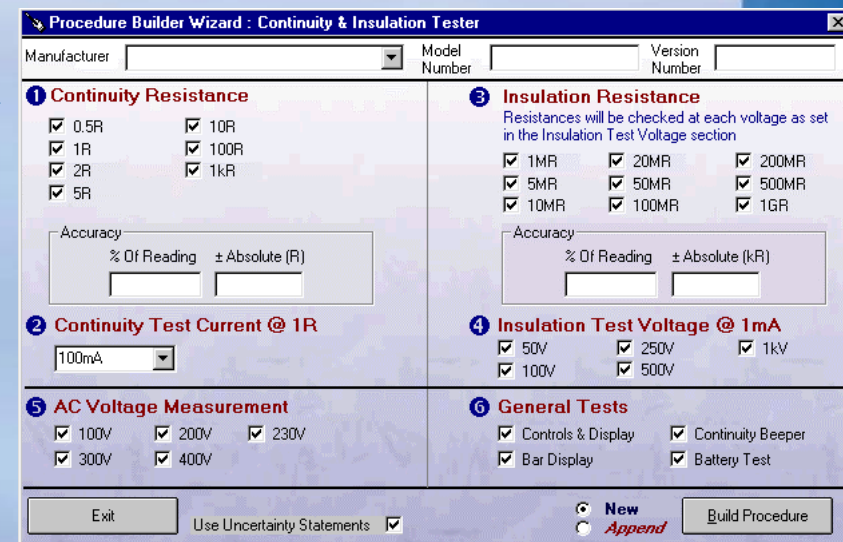
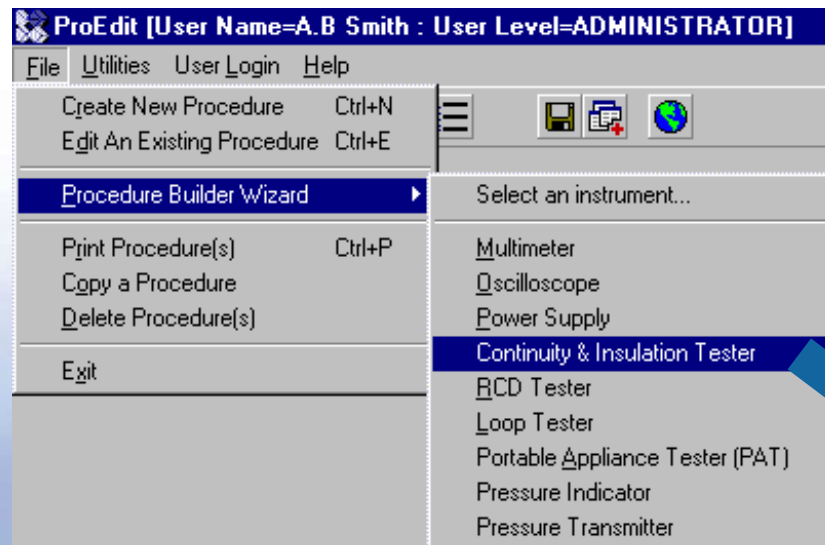
# ProEdit : Appending Tests

## Step 1



→ Start ProEdit

→ Select File → Procedure Builder Wizard → Continuity & Insulation Tester



# ProCal :: Appending Tests

## Step 2



→ Enter Manufacturer, Model Number and Version number

**Procedure Builder Wizard : Loop Tester**

Manufacturer: MEGGER Model Number: CM500 Version Number: 1.00

**1 Loop Resistance Tests** Tip : For each range, select the resolution and resistance ranges to be tested. To enable the 2nd & 3rd ranges, select the range first.

Range	Resolution	Resistance
20R		<input checked="" type="checkbox"/> 0Ω
		<input checked="" type="checkbox"/> 0.05Ω
		<input checked="" type="checkbox"/> 0.1Ω
		<input checked="" type="checkbox"/> 0.22Ω
		<input checked="" type="checkbox"/> 0.33Ω
		<input checked="" type="checkbox"/> 0.5Ω
		<input checked="" type="checkbox"/> 1Ω
		<input checked="" type="checkbox"/> 5Ω
		<input checked="" type="checkbox"/> 10Ω
		<input checked="" type="checkbox"/> 100Ω
		<input checked="" type="checkbox"/> 1000Ω

Select All Select None

Range	Resolution	Resistance
200R		<input checked="" type="checkbox"/> 0Ω
		<input checked="" type="checkbox"/> 0.05Ω
		<input checked="" type="checkbox"/> 0.1Ω
		<input checked="" type="checkbox"/> 0.22Ω
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		<input checked="" type="checkbox"/> 1Ω
		<input checked="" type="checkbox"/> 5Ω
		<input checked="" type="checkbox"/> 10Ω
		<input checked="" type="checkbox"/> 100Ω
		<input checked="" type="checkbox"/> 1000Ω

Select All Select None

Range	Resolution	Resistance
2000R		<input checked="" type="checkbox"/> 0Ω
		<input checked="" type="checkbox"/> 0.05Ω
		<input checked="" type="checkbox"/> 0.1Ω
		<input checked="" type="checkbox"/> 0.22Ω
		<input checked="" type="checkbox"/> 0.33Ω
		<input checked="" type="checkbox"/> 0.5Ω
		<input checked="" type="checkbox"/> 1Ω
		<input checked="" type="checkbox"/> 5Ω
		<input checked="" type="checkbox"/> 10Ω
		<input checked="" type="checkbox"/> 100Ω
		<input checked="" type="checkbox"/> 1000Ω

Select All Select None

**2 Additional Tests**

Indicator Check  
 Display Check  
 Controls Check

**3 Loop Tester Specifications**

% Of Reading:   
% Of Range:   
± Counts:

Exit Use Uncertainty Statements   New  Append Build Procedure

# ProCal :: Appending Tests

## Step 3



**COMPLETE THE TESTS REQUIRED FOR ALL SECTIONS, e.g.**

- Select the required resistance values using the tick boxes
- Enter the % of Reading and ± Absolute values from the specifications.

**Note :** Many instruments often specify a number of counts or digits. To convert this into an absolute value first determine the value of the last digit (resolution). For example the absolute value for the CM500 with a spec. of ± 2 digits and a display resolution 0.1 ohms, is  $2 \times 0.1R = 0.2R$

**CONTINUITY RANGE (to EN 61557-4)**  
Displayed Range: (**CM500**) 0,01 Ω to 99,9 kΩ  
(**CM400**) 0,01 Ω to 99,9 Ω  
Intrinsic accuracy: ± 2% ± 2 digits  
Open Circuit Voltage: 4 V - 5 V  
Test Current: (0 - 2Ω) 200 mA - 250 mA  
EN61557 Operating Range: 0,10 Ω to 99,9 kΩ



# ProCal :: Appending Tests

## Step 4

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



**Procedure Builder Wizard : Loop Tester**

Manufacturer: MEGGER Model Number: CM500 Version Number: 1.0

**1 Loop Resistance Tests** Tip : For each range, select the resolution and resistance ranges to be tested. To enable the 2nd & 3rd ranges, select the range first.

Range	Resolution	Resistance
20R		<input checked="" type="checkbox"/> 0Ω
		<input checked="" type="checkbox"/> 0.05Ω
		<input checked="" type="checkbox"/> 0.1Ω
		<input checked="" type="checkbox"/> 0.22Ω
		<input checked="" type="checkbox"/> 0.33Ω
		<input checked="" type="checkbox"/> 0.5Ω
		<input checked="" type="checkbox"/> 1Ω
		<input checked="" type="checkbox"/> 5Ω
		<input checked="" type="checkbox"/> 10Ω
		<input checked="" type="checkbox"/> 100Ω
		<input checked="" type="checkbox"/> 1000Ω

**2 Additional Tests**

- Indicator Check
- Display Check
- Controls Check

**3 Loop Tester Specifications**

- % Of Reading:
- % Of Range:
- ± Counts:

Exit **Use Uncertainty Statements**   New  Append

# ProCal :: Appending Tests

## Step 5

Click on the **Build Procedure** button to proceed



Procedure Builder Wizard : Loop Tester

Manufacturer: MEGGER Model Number: CM500 Version Number: 1.00

**1 Loop Resistance Tests** *Tip: For each range, select the resolution and resistance ranges to be tested. To enable the 2nd & 3rd range, select the range first.*

Range	Resolution	Resistance
20R		<input checked="" type="checkbox"/> 0Ω
		<input checked="" type="checkbox"/> 0.05Ω
		<input checked="" type="checkbox"/> 0.1Ω
		<input checked="" type="checkbox"/> 0.22Ω
		<input checked="" type="checkbox"/> 0.33Ω
		<input checked="" type="checkbox"/> 0.5Ω
		<input checked="" type="checkbox"/> 1Ω
		<input checked="" type="checkbox"/> 5Ω
		<input checked="" type="checkbox"/> 10Ω
		<input checked="" type="checkbox"/> 100Ω
		<input checked="" type="checkbox"/> 1000Ω

**2 Additional Tests**

- Indicator Check
- Display Check
- Controls Check

**3 Loop Tester Specifications**

Percentage Of Reading:

Percentage Of Range:

± Counts:

Exit Use Uncertainty Statements   New  Append **Build Procedure**



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

ProEdit

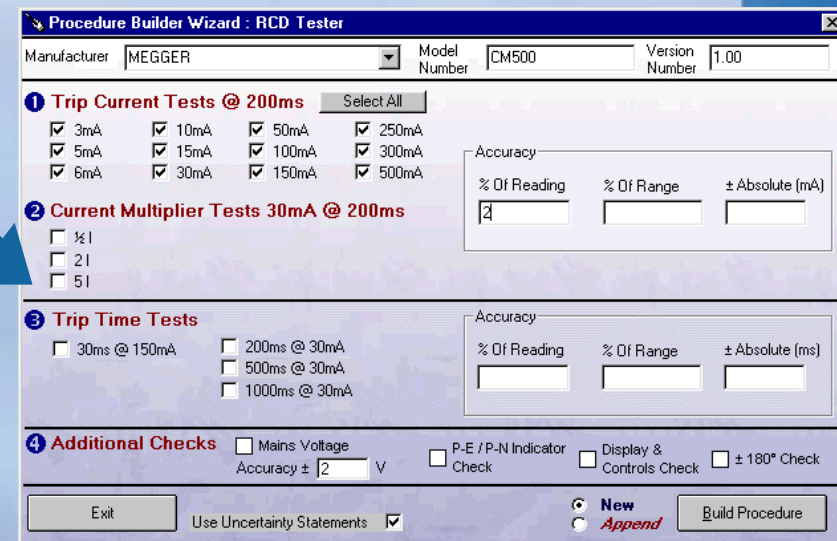
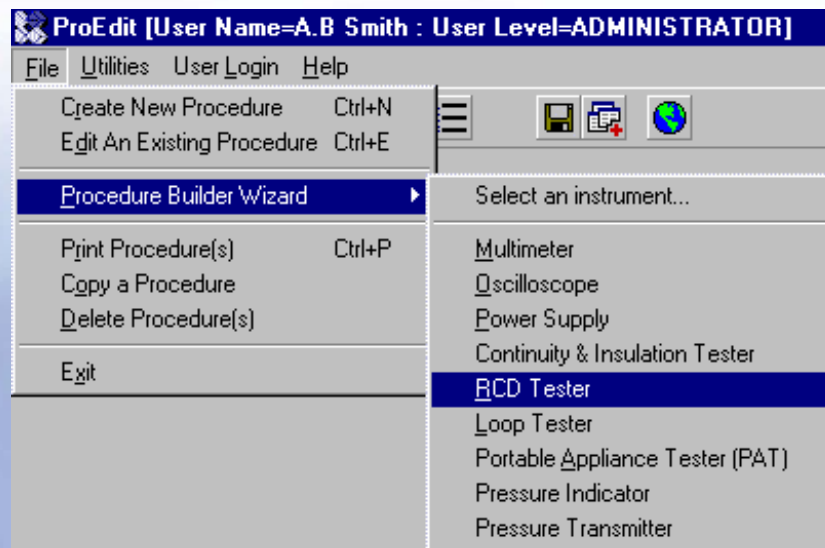
? Auto create another procedure?

# ProCal :: Appending Tests

## Step 6

A procedure has been created with just the continuity & insulation tests. Additional tests can be added by using a wizard to **APPEND** tests.

Select another wizard, in this example the RCD Tester Wizard



# ProCal :: Appending Tests

## Step 7



- Select the APPEND option next to the Build Procedure button. NOTE : The Manufacturer, Model Number & Version number boxes will be hidden and set by the procedure selected to add these tests to.

**Procedure Builder Wizard : RCD Tester**

**1 Trip Current Tests @ 200ms** Select All

3mA     10mA     50mA     250mA  
 5mA     15mA     100mA     300mA  
 6mA     30mA     150mA     500mA

**2 Current Multiplier Tests 30mA @ 200ms**

1/2  
 2  
 5

**3 Trip Time Tests**

30ms @ 150mA     200ms @ 30mA  
 500ms @ 30mA  
 1000ms @ 30mA

**4 Additional Checks**     Mains Voltage  
Accuracy ± 2 V     P-E / P-N Indicator Check     Display & Controls Check     ± 180° Check

Exit    Use Uncertainty Statements      New     **Append**    Build Procedure



# ProCal :: Appending Tests

## Step 8



→ Set up the tests as required, including ranges and accuracies

Procedure Builder Wizard : RCD Tester

Manufacturer: MEGGER Model Number: CM500 Version Number: 1.00

**1 Trip Current Tests @ 200ms**

<input checked="" type="checkbox"/> 3mA	<input checked="" type="checkbox"/> 10mA	<input checked="" type="checkbox"/> 50mA	<input checked="" type="checkbox"/> 250mA
<input checked="" type="checkbox"/> 5mA	<input checked="" type="checkbox"/> 15mA	<input checked="" type="checkbox"/> 100mA	<input checked="" type="checkbox"/> 300mA
<input checked="" type="checkbox"/> 6mA	<input checked="" type="checkbox"/> 30mA	<input checked="" type="checkbox"/> 150mA	<input checked="" type="checkbox"/> 500mA

Accuracy:

% Of Reading	% Of Range	± Absolute (mA)
<input type="text" value="2"/>	<input type="text"/>	<input type="text"/>

**2 Current Multiplier Tests 30mA @ 200ms**

<input type="checkbox"/> 1/2 I
<input type="checkbox"/> 2 I
<input type="checkbox"/> 5 I

**3 Trip Time Tests**

<input type="checkbox"/> 30ms @ 150mA	<input type="checkbox"/> 200ms @ 30mA
<input type="checkbox"/> 500ms @ 30mA	<input type="checkbox"/> 1000ms @ 30mA

Accuracy:

% Of Reading	% Of Range	± Absolute
<input type="text"/>	<input type="text"/>	<input type="text"/>

**4 Additional Checks**

<input type="checkbox"/> Mains Voltage	<input type="checkbox"/> P-E / P-N Indicator	<input type="checkbox"/> Display & Controls Check	<input type="checkbox"/> ± 180° Check
Accuracy ± <input type="text" value="2"/> V	Check	Check	Check

Use Uncertainty Statements   New  Append

### Timed Trip Tests

Trip time displayed Range 0, ms to test time limit

Intrinsic Trip time accuracy ± 1% ± 1 ms

Intrinsic Test Current accuracy +2% / +8%

# ProCal :: Appending Tests

## Step 9



Click on the **Build Procedure** button to proceed – as APPEND is selected, instead of creating a NEW procedure, ProEdit will ask for an existing procedure to be selected.

The screenshot displays the 'Select Procedure [Procedure Builder Wizard Append Mode]' dialog box. On the left, the 'Search By' section has 'Manufacturer' selected. Below it, the 'Model Number' field contains 'cm500'. A blue arrow points from this field to the search results table. The table shows one result: '12 | Installation Tester | Avo | CM500 | 1.10/N'. The 'Start Search' button is visible at the bottom of the search criteria section.

No.	Instrument Description	Manufacturer	Model Number	Version Number
12	Installation Tester	Avo	CM500	1.10/N

# ProCal :: Appending Tests

## Step 10



Select the procedure to **APPEND** these tests to, then click **ACCEPT**

The procedure selected will have these tests added **AFTER** the last test, and will also add any uncertainty statements to the procedure as required.

Select Procedure [Procedure Builder Wizard Append Mode]

**Search By**

Tip : Select criteria to search by clicking on one or more button(s).  
To view all instruments click start search without selecting a search

Procedure Number

Version Number

**Manufacturer**

Description

Model Number

Date Created / Edited

Standard

Accredited

Select Accredited, Standard or both.

Start Search

Exit

Select Procedure [Procedure Builder Wizard Append Mode]

Procedure Search Results 1 Match(es) Found.

No.	Instrument Description	Manufacturer	Model Number	Version Number
12	Installation Tester	Avo	CM500	1.10/N

Model Number

cm500

Exit Re-Search Accept