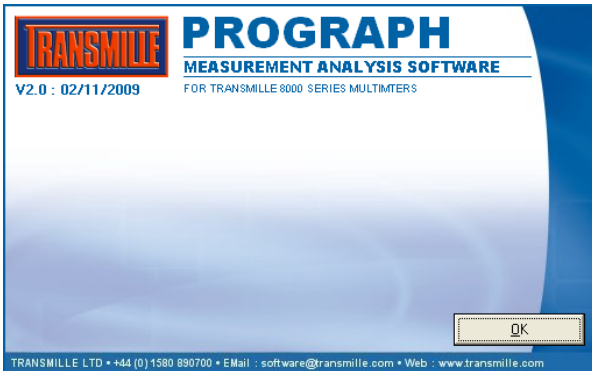




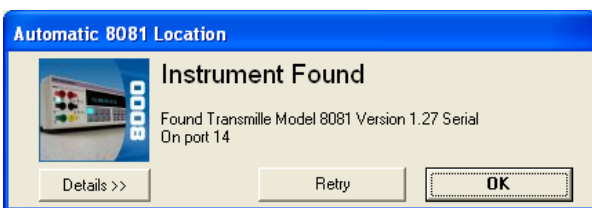
# ProGraph Operation Manual

## Measurement Analysis Software



ProGraph provides the ability to use the 8000 Series multimeters to perform measurement analysis of signals. Multiple channels can be configured, and using the 8500 Scanner (option) up to 10 channels can be monitored.

### Configuring the 8000 Series



ProGraph will auto detect the 8000 series when the program starts up. The DMM can also be autodetected at any time by clicking on the **QUICK SETUP** button.

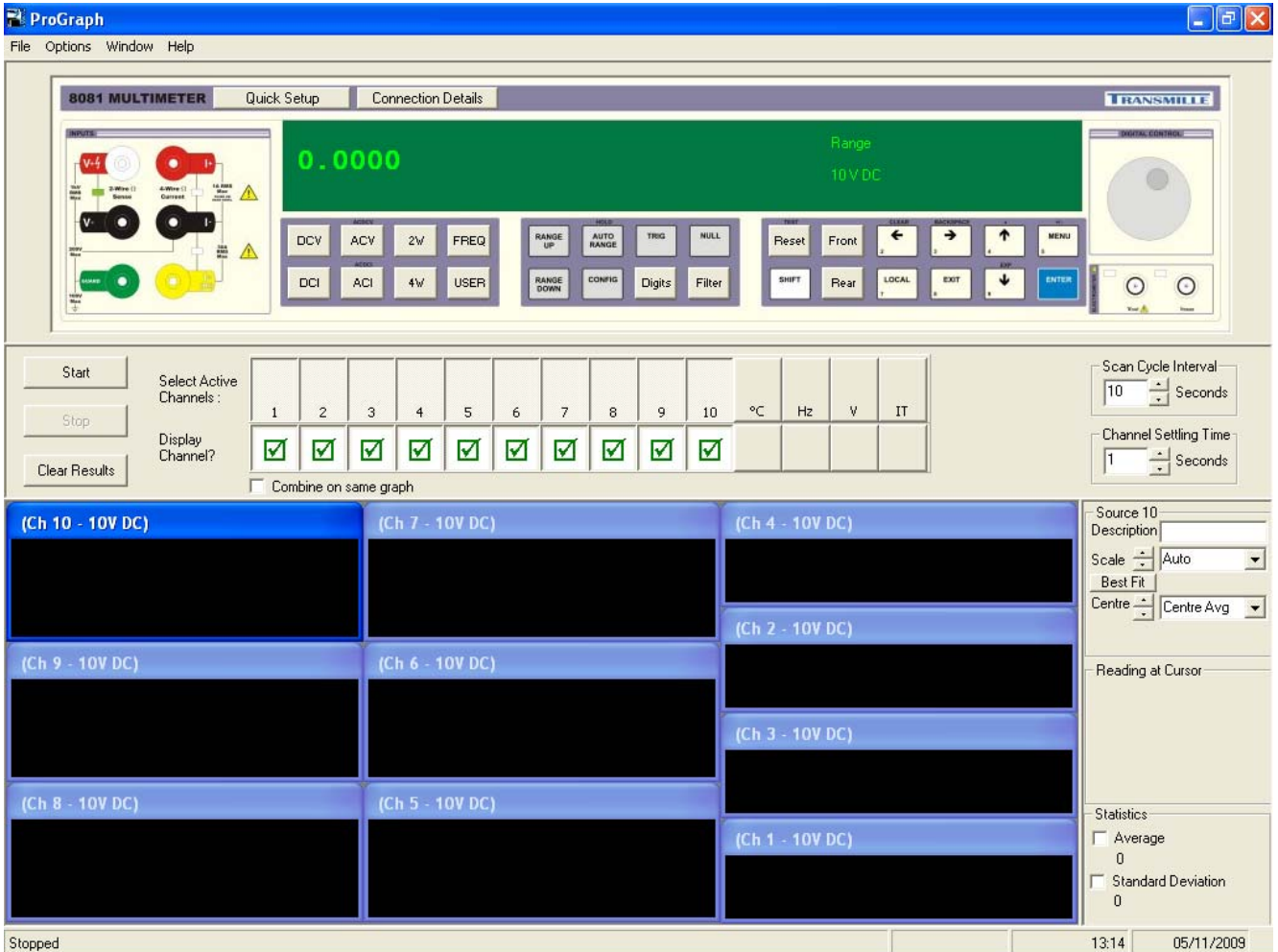
### Setting up measurement channels



Main program screen

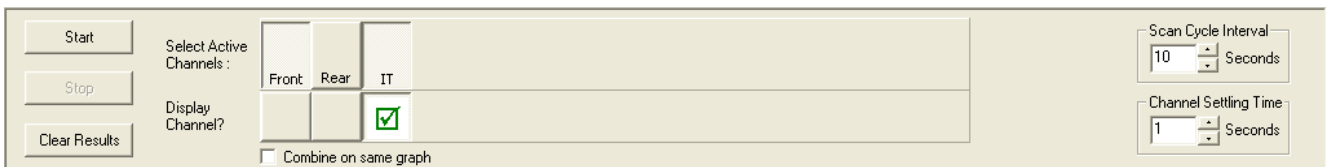


### Channel Control Section



The channel control section allows one or more channels to be activated and displayed as a graph.

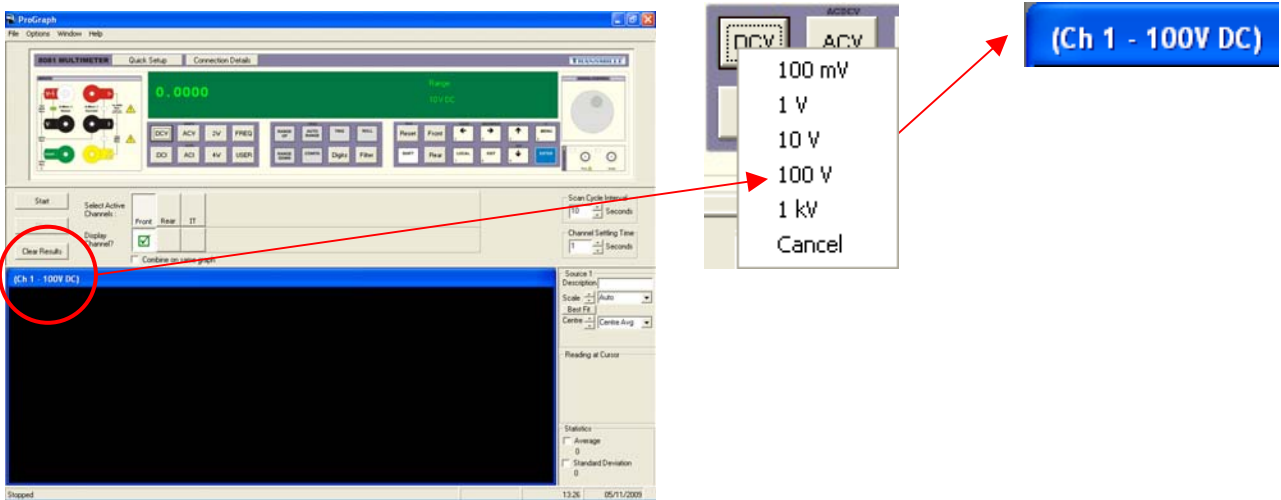
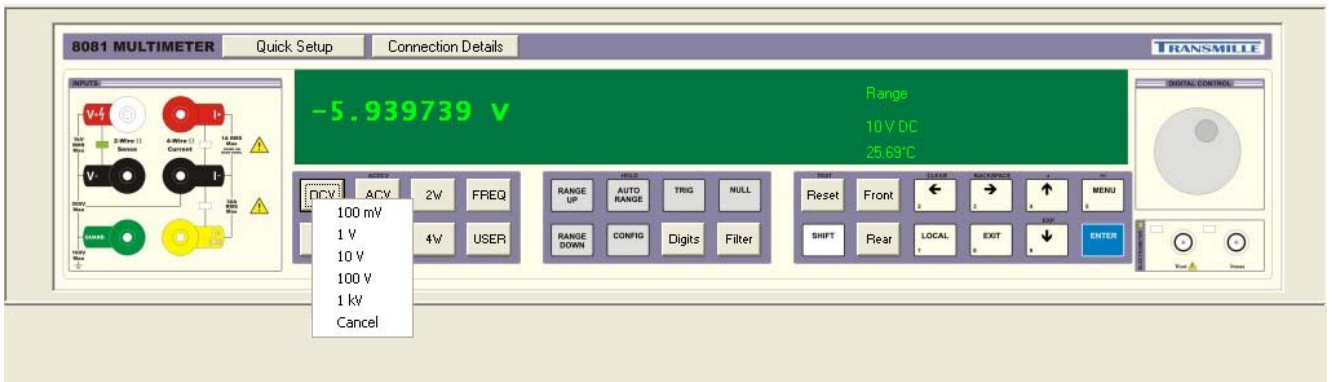
Note that activating a channel allows the program to read back data from this channel, but in order to display this channel as a graph it needs to be selected for display (green tick).



Select one or more channels to activate using the click on / click off selection method (active channel shown as a depressed button).

Select one or more channels to display using the click on / click off selection method (channels marked for display will show a green tick).

Once the channels have been activated, clicking on a graph window allows the function and range to be selected. Use the virtual DMM to set the function and range by clicking on the buttons as show below :



By clicking on each graph window, different functions / ranges can be set for each active channel.

### Channel Selection Button



Channel selection button (depressed = selected)

### Display Channel Selection



Display channel selection (depressed = selected)

## 8000 Series Channels :

Select Active Channels :	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Front	Rear	IT
Display Channel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Front
- Rear
- IT (Internal Temperature)

## 8500 Scanner Channels :

Select Active Channels :	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	1	2	3	4	5	6	7	8	9	10	°C	Hz	V	IT
Display Channel?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Channel 1
- Channel 2
- Channel 3
- Channel 4
- Channel 5
- Channel 6
- Channel 7
- Channel 8
- Channel 9
- Channel 10
- °C (PRT Probe temperature)
- Hz (Mains Frequency)
- V (Mains Voltage)
- IT (Internal Temperature)

## Performing and Displaying Measurements

Start
Stop
Clear Results

To begin the scanning/ measurement process click on the **Start** button.

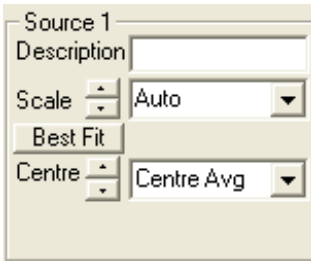
Use the **Stop** button to suspend measurement at any time

The **Clear Results** button clears the current measurements from the active channels (and displayed graphs)

Scan Cycle Interval	10	Seconds
Channel Settling Time	1	Seconds

Use the **Scan Cycle Interval** section to change the *delay* between channel measurements.

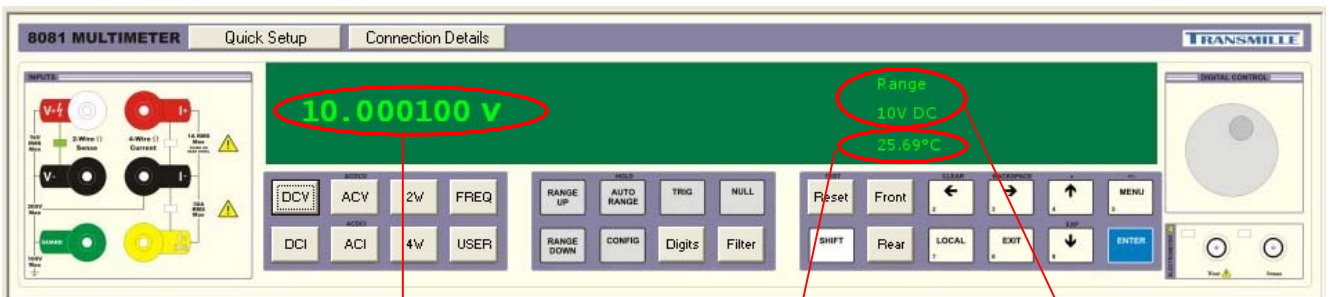
Use the **Channel Settling Time** section to set a *settling delay* for channel measurements.



The Source information box displays :

- Description : A user definable channel description
- Scale : Based on the function / range for the channel
- Note : The **Best Fit** button can be used to auto scale based on the current reading set.
- Centre : Adjust the graph centre position (Centre, Zero, Newest, Base)

The virtual DMM displays data as read by the DMM :



Measured Value

Internal temperature

Selected channel range / function