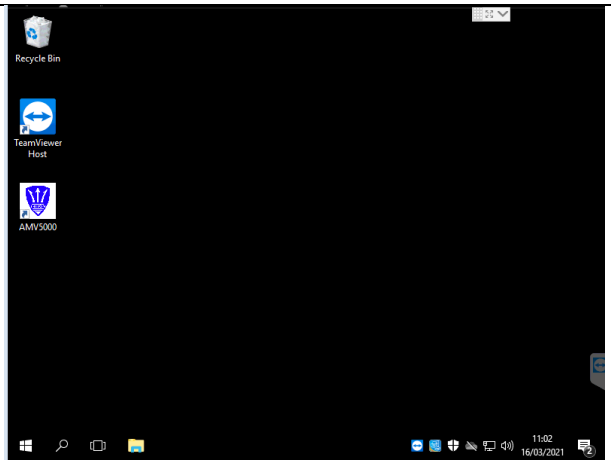
AMV5000 Guide

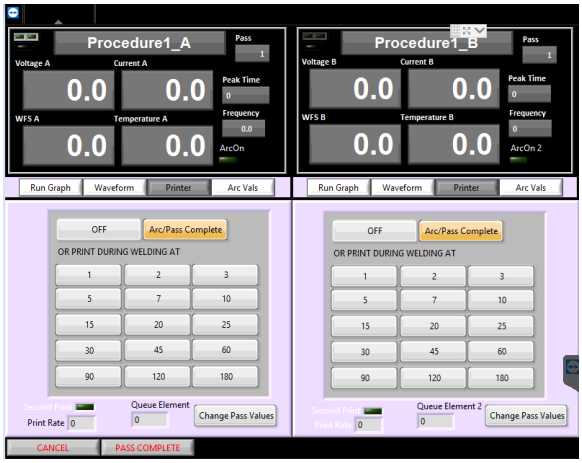
Connection to welding plant

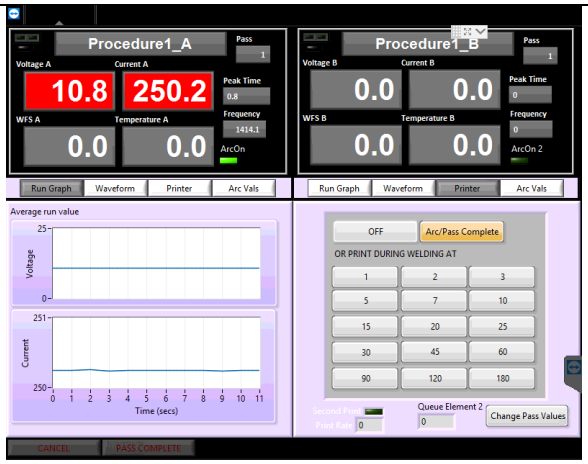
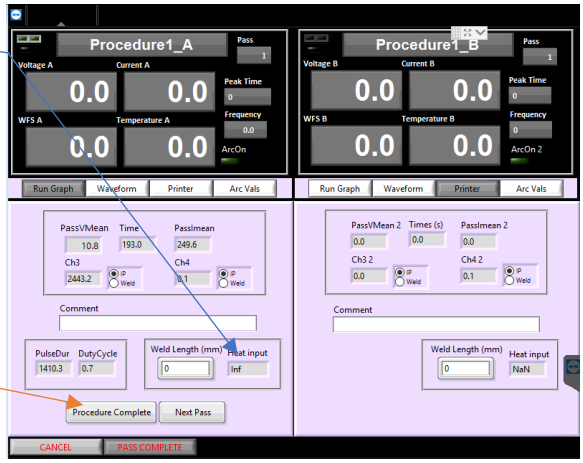
Need to add.

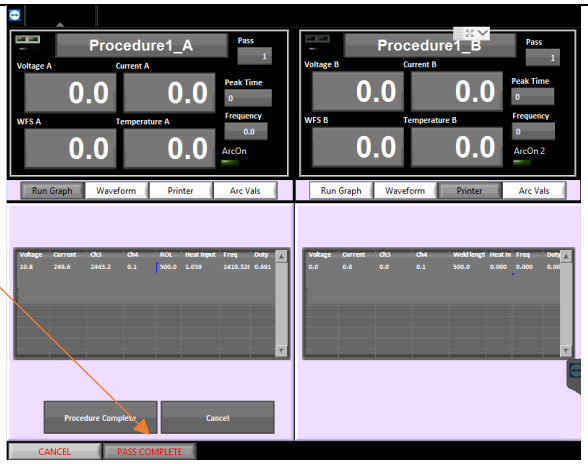
Simple Procedure record

This is the easiest method to record a weld

1	From the desktop double click the AMV5000 logo	
2	The splash screen loads the AMV5000 code and displays the unit serial number and last calibration date.	

3	Boot to the start screen From start screen press MONITOR	
4	You might need to agree to overwrite any previous data for both A and B	
5	This starts a new Procedure on both channels. The default names are: Procedure1_A - running on channel A Procedure1_B - running on channel B This is the ready state. Once an arc is detected the AMV will start recording.	
6	When running the AMV display average values in the top half of the screen.	

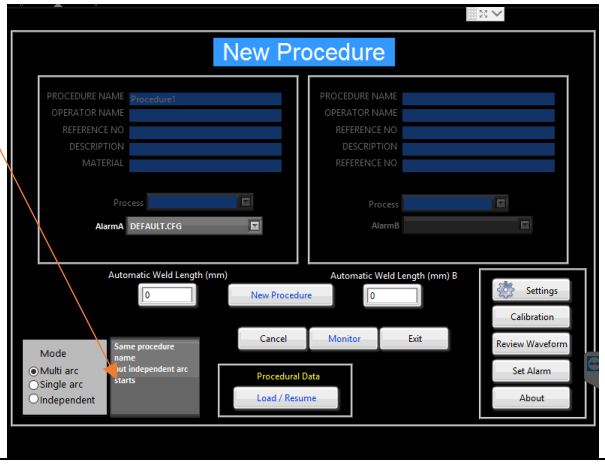
	And there are graphical option on the bottom. Run Graph show the trend line for the weld, and the x axis displays the arc time elapsed. Note in this case Channel A is recording Channel B is not.	
7	Once the arc stops the AMV returns to the ready state. If that is the end of the pass press PASS COMPLETE	
8	Enter a pass length and the heat input is calculated. Because the default setting Multi Arc was used the weld length is copied across to channel B – even though no reading are recorded. If that is the end of the procedure - i.e. a procedure that is 1 arc and 1 pass. Press PROCEDURE COMPLETE	

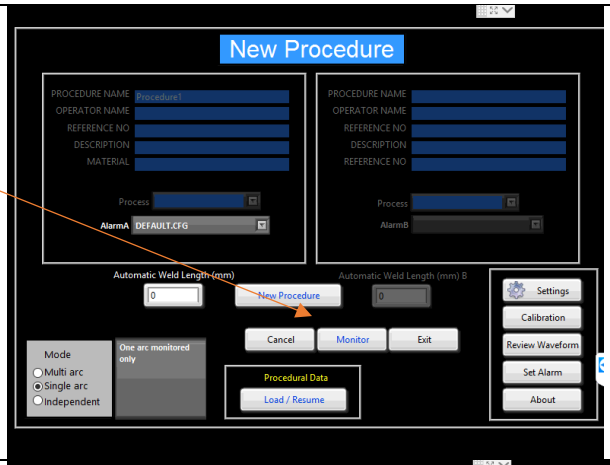
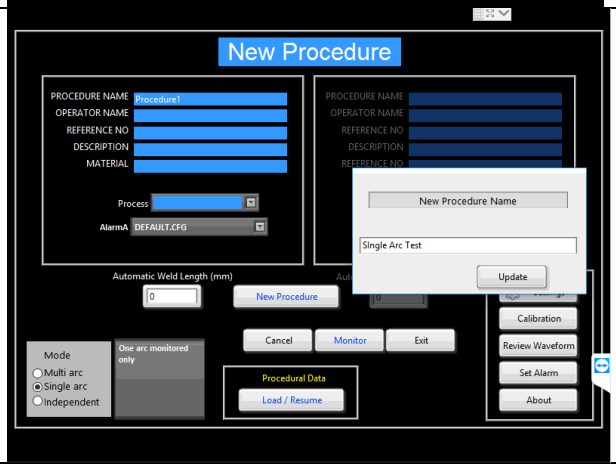
9	This will show the procedure summary screen for both Channel A and B. Press PROCEDURE COMPLETE to finalise the procedure and return to the start screen.	
10	Ready to start a new procedure.	

Run a single welding process

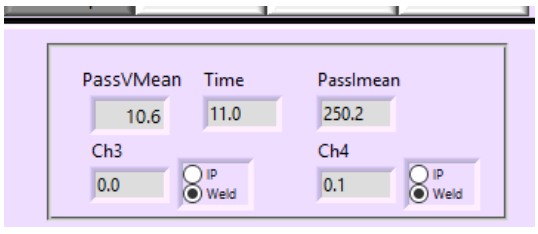
You can run the AMV5000 to capture just one welding arc as above. The B version is generated with zero values.

An alternative is to set the AMV to run a single arc:

11	From the start screen. Select the Single arc radio option: Note the Automatic weld length B is greyed out.	

12	To name the procedure, press New Procedure	
13	Type the new procedure name in. In this example we SingleArcTest	
14	The procedure name appears in the lefthand title box. Now fill in: Operator name : Reference Number: Description: Material: Then select a process from the drop down menu. You can also set an alarm from the alarm drop down list. The next example shows how to setup these	

15	Having filled it in it should look something like this Press Monitor	
16	The main difference to the screen in step 5 is the seconf bottom display now shows arc values. As before this it the waiting screen. Once an arc is detected the AMV will record.	
17	The running screen shows the trand lines as before but also the oulse values. To see the waveform press the waveform option	

18	Select the channels to view (in this case channel 1 (voltage) and 2 (current)) The times base can be extended to 2 or 3 seconds. Ths can help visualise long GTAW, TIG pulses	
19	Press pass complete when the arc has gone out. Then press Next Pass. This retuurns the AMV to the wait screen	
20	Once an arc has been recorded press Pass Complete Enter a weld length to change the heat input calculation.	
21	Notice on channel 3 and channel 4 there is a radio selection button. This means the value reported is either • IP for interpass – the value just before the arc struck. • Weld – average value from the recorded values.	

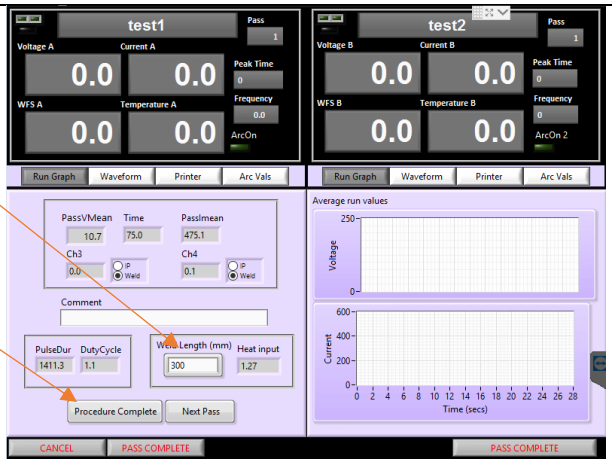
22	Press Procedure Complete This brings up the procedure summary. Press Procedure Complete to go back to the setup screen.	
23		

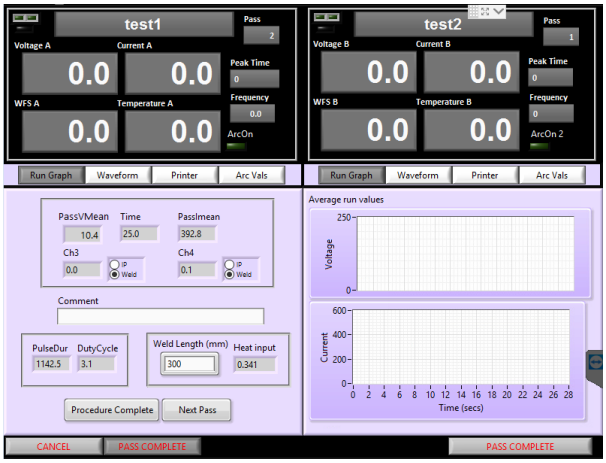
Run an Independent welding process

The AMV5000 can monitor 2 entirely separate welding systems.

24	Select Independent from radion selection box. Enter the names of each procedure, test1 and test2 in our case. Press Monitor	

25	The wait screen looks very similar to screen 5 but the procedure names do not have _A and _B	
26	When one side starts just that half starts to record the welding `	
27	Run an arc on Channel B	

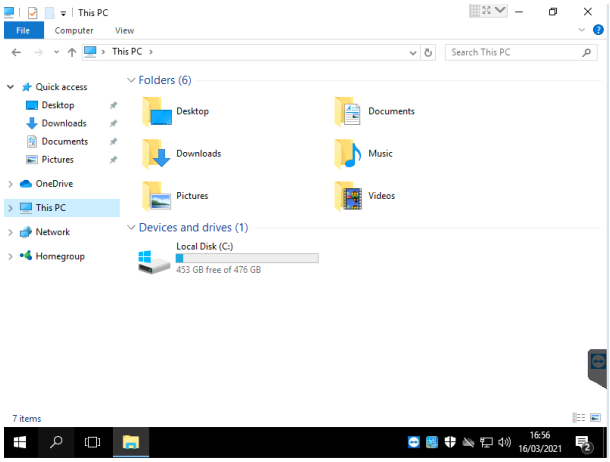
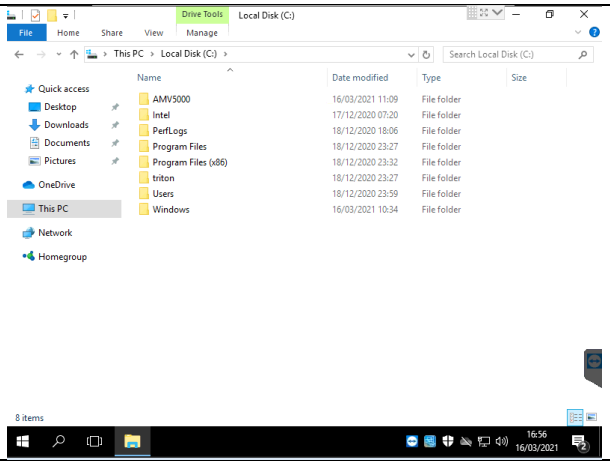
28	When the arc has finished the screen shuld look like this. Press PASS COMPLETE on Channel A	
29	Then enter a weld length Press PROCEDURE COMPLETE	
30	The screen should now show a summary of the pass. Press Cancel This returns to the wait screen	

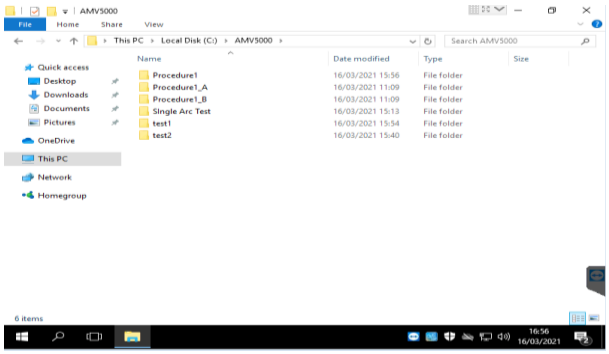
31	Channel A is now waiting to start Pass 2 Channel B is still on Pass 1	
32	Ruin another arc on Channel A	
33	Press PASS COMPLETE for Channel A	

34	Then PASS COMPLETE for Channel B Press Procedure Complete on both Channel A and Channel B	
35	The summaries of both procedures are shown. Press Procedure Complete for Channel A	
36	You can now swetup a new procedure on Channel A Press Monitor	

37	The AMV sets Channel A to the wait screen	

Recorded data

38	Close the AMV software	
39	Open file explorer	
40	Navigate to the folder c:\AMV5000	

41	Each procedure has a separate folder	
42	The data files are stored in the individual folders.