Quick Start Guide
EM Signal Controller

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1. Ensure batteries are fully charged and all connections are secure, turn on the EM controller via the On/Off button.

    - Using Signal/Layout for Signal and any + or - button to set to Signal 1, also known as the Master, followed by Enter to save.

    - Using Signal/Layout button, for Set program type then any + or - button to set to Special System Program – press Enter to save.

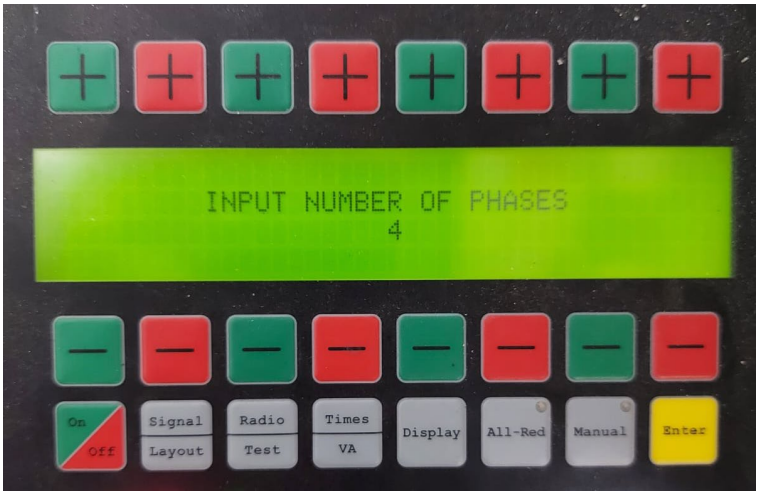
      Special System Program allows all possible site configurations, so this is recommended. (For ADS and UTMC use the relevant guides).

2. In this example we will be setting up for 3 way / 2 crossings.

    - 3 way = 3 approaches of Traffic

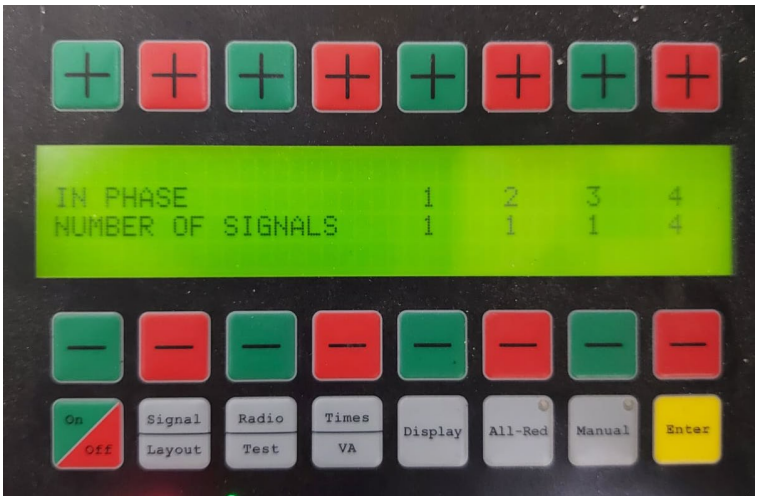
    - 2 crossings = 2 full crossing points (4 Ped heads in total)

- Using Signal/Layout for Input number of phases and any + or - button to set to 4.



- 3 phases for the Traffic, 1 phase for the two crossings.

3. Using Signal/Layout for in phase number of signals and the corresponding + or - button to set number of signals in each phase.



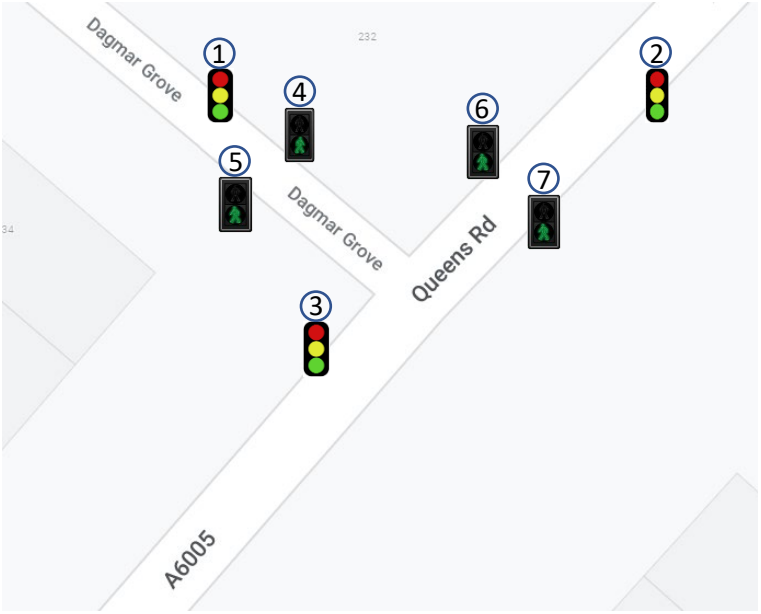
- 1 Signal for each traffic phase, 4 ped heads for the pedestrian phase.

4. Using Signal/Layout for type of signal and the corresponding + or - button to set type of signals in each phase.

- Phases 1, 2 and 3 will be T for Traffic, phase 4 will be P for pedestrian.

Now press Enter to ensure all these settings have been saved.

5. Now set the other two traffic signals to signal number 2 and 3 ensuring you press Enter to save.

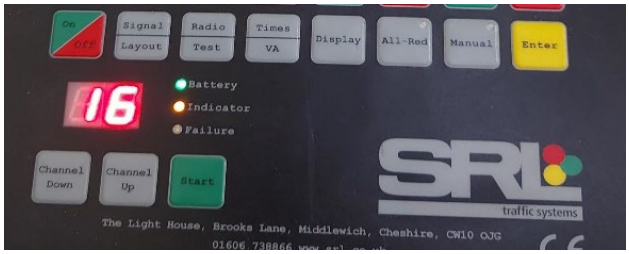


Note – only the signal number is required on all other control boxes as the Master holds all detailed information.

6. The Ped signals are now to be set following on with 4, 5, 6 and 7.

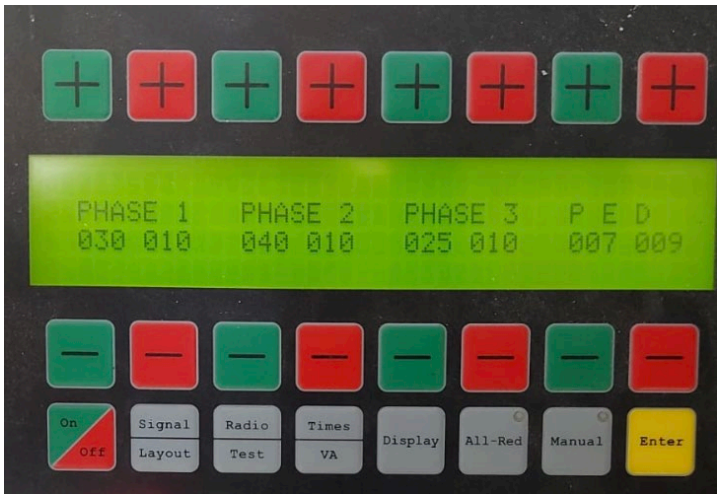
7. Checking for a clear channel to operate the signals on can only be done on any other signal than the Master. Using the Channel up and down button cycle through slowly to find a channel with no indicator light flashing.

This would be a poor channel to use -



- Once a clear channel is found, set all signals to the same channel.

8. On the Master (Signal 1), Using Times/VA for phase timings and the corresponding + or - button to set the phase green and red times.



- The first time is the Green for that phase, use the corresponding green + and - to change. The second time is the Red for that phase, use the corresponding red + and - to change.

Now press Enter to ensure all these settings have been saved.

9. Using Times/VA for phase VA settings and corresponding + or - button to set the VA for each phase.

See below the following VA settings and their functionality

- VA0 = Fixed time (Max)
- VA1 = Fixed time / VA – Will always service each approach, depending on traffic will run MAX if required
- VA2 = Vehicle actuated, will work on detection (most common)
- VA3 = Revert back to this phase if no demands

Now press Enter to ensure all these settings have been saved

10. Press the Display button to display Communication Fault

Press START, all the signal numbers will disappear, and the signals will begin to run, initially running through all phases.

The following screen will now be displayed, explaining which state each signal is in; this also includes whether or not a phase has a demand or is demanding.

* One asterisk means there is a demand for that phase and the signals will service this phase.

** Two asterisks mean there is a current demand, and the VA detector is seeing traffic.

For further assistance, please contact your nearest SRL depot.