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## DataSign-PTL (Portable Traffic Lights)

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## All-Red Time Explained

The All-Red interval is the period of time that the aspects on **both** the Master and Slave units remain on the All-Red phase (i.e. both the Master and Slave on Red light). This allows for the clearance of traffic from within the controlled area. A maximum All-Red time of 300 seconds (5 minutes can be set, however the Australian Standard currently only allows for a maximum of 100 seconds. This is due to safety reasons, where drivers may be less inclined to wait at a Red light for a long period of time; i.e. "run the Red".





The chart above is also provided in the Control box on the Master unit. Use this chart to determine the minimum All-Red interval to set depending on the distance between the PTL units, and the set speed zone. For example, if the speed limit in the road-work zone is 40 km/h, and the distance between the Master and Slave units is 500 metres, working along the red line to 40km/h and check where that intersects the distance value, to read off the recommended All-Red Time setting which would be 45 seconds. To work this out mathematically, convert the speed from km/h to m/s (metres-per-second). Then divide the distance (in metres) by the result. i.e.  $500 \div (40 \div 3.6) = 45$  seconds, which is what the chart indicates to set for the All-Red Time. Some customers add a number of seconds to the All-Red Time value; you may want to add an additional 20% on top.

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