

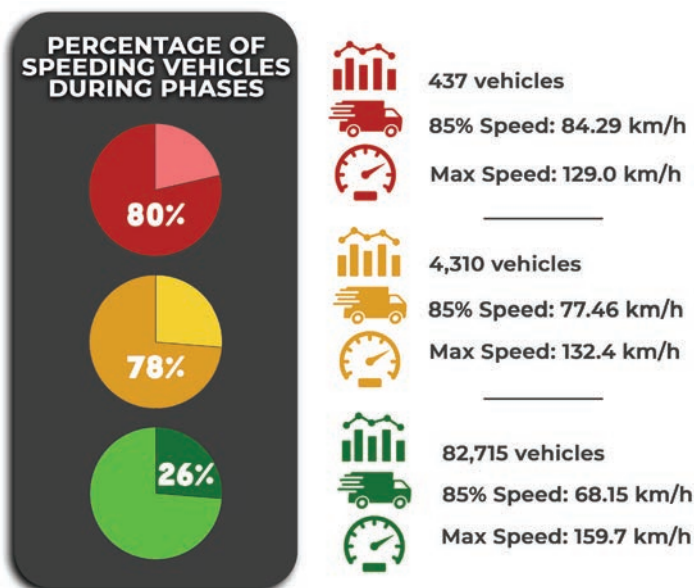
RoadPod® PhaseT

Monitoring vehicle behaviour at traffic signals

Surveying Signalised Rail Crossings and Traffic Intersections

The RoadPod® PhaseT correlates detailed vehicle data with the different phases of a traffic signal.

The PhaseT uses the same core technology as the RoadPod VT with the addition of an optical fibre interface that detects and records changing signal phases in parallel.



Look Beyond Crash Data

Relying only on existing crash data to analyse driver behaviour at intersections provides no mechanism to identify potential issues before an accident occurs.

By monitoring all driver behaviour at a signalised intersection, preventative action can be taken based on empirical evidence, without having to wait for the crash statistics to accumulate.

Customise Signal Phases in MTE

MTE software provides common signal phase templates or allows for the customisation of a unique *Phase Map* to suit unique traffic signals.

Common Use Examples:

Correlating vehicle behaviour data with traffic signals has a number of benefits including:

- Identifying volume and speed during the amber or warning phase of traffic lights to assess driver reaction times and inform ideal signal timing.
- Detecting potential road safety issues and informing phase timing modifications or intersection redesign.
- Identifying and addressing specific vehicle class behavioural trends during different phases.
- Assessing the effectiveness of rail crossings by analysing vehicle volumes during the red or stop phase.



The RoadPod® PhaseT records synchronised traffic data and signal phases using pneumatic tubes and fibre optics.



RoadPod® PhaseT 5912 Hardware Specifications

- Sensors:** Pneumatic tubes & optical fibre
- Memory:** Up to 1 million axles
- Battery life:** Up to 4 years of continuous use
- Battery:** 6V 18Ah, 4 D alkaline cells
- Operational:** From -20°C to 70°C degrees and up to 95% humidity
- Enclosure:** Stainless steel road case and weatherproof internal case
- Dimensions:** 350 x 124 x 95mm
- Total weight:** 4.15kg or 9.14lb

Phase map
Set timing parameters here

Phase is active Set phase to B-Trigger

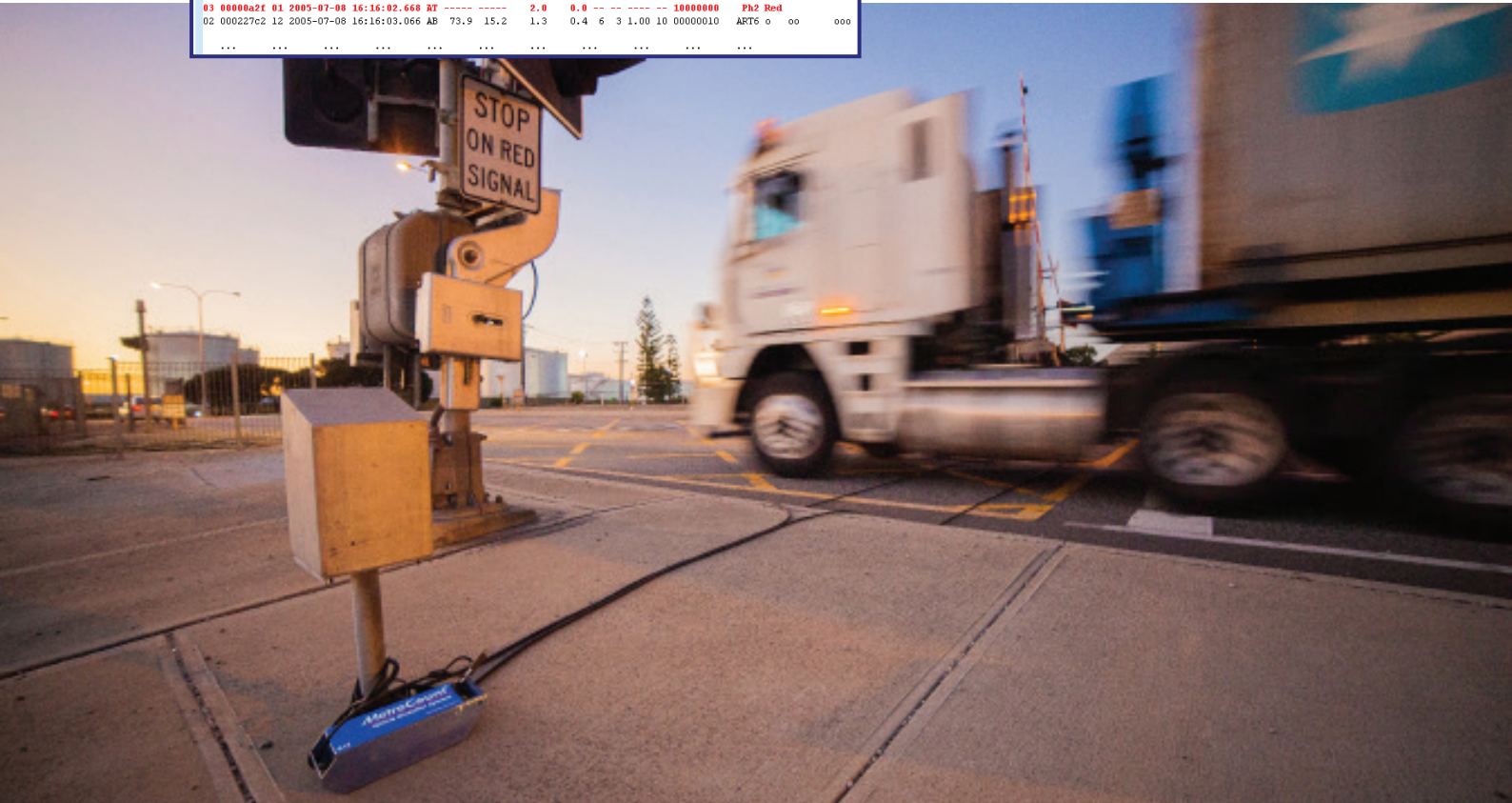
4.00 Phase width (seconds)

Yellow Phase color

Save Load

DS	Axle	Num	Ht	YYYY-MM-DD	hh:mm:ss.000	Dr	Speed	Wb	Hbwy	Gap	Ax	Op	Rho	Cl	Nh	Vehicle	
03	00000a2e	01	2005-07-08	16:14:50.357	BT		52.0	0.0								10000000	Ph3 Green
02	00022784	04	2005-07-08	16:15:41.137	AB		82.6	2.4	2.1	50.8	2	2	1.00	2	00000020	SV 0 0	
02	00022788	04	2005-07-08	16:15:42.089	AB		78.1	2.7	1.0	51.7	2	2	1.00	2	00000020	SV 0 0	
02	0002278c	04	2005-07-08	16:15:44.201	AB		79.3	2.5	2.1	53.8	2	2	1.00	2	00000024	SV 0 0	
02	00022790	04	2005-07-08	16:15:44.644	AB		80.0	2.5	0.4	54.3	2	2	1.00	2	00000020	SV 0 0	
02	00022794	04	2005-07-08	16:15:47.370	AB		74.3	2.8	2.7	57.0	2	2	1.00	2	00000020	SV 0 0	
02	00022798	04	2005-07-08	16:15:50.455	AB		75.4	2.4	3.1	60.1	2	2	1.00	2	00000020	SV 0 0	
02	0002279c	06	2005-07-08	16:15:53.792	AB		71.5	5.5	3.3	63.4	3	3	1.00	3	00000020	SVT 0 0 0	
02	000227a2	04	2005-07-08	16:15:55.163	AB		72.2	2.6	1.4	64.8	2	2	1.00	2	00000020	SV 0 0	
02	000227a6	04	2005-07-08	16:15:56.071	AB		75.2	3.2	0.9	65.7	2	2	1.00	2	00000020	SV 0 0	
03	00000a2f	01	2005-07-08	16:15:56.668	RT		66.3	0.0								10000000	Ph0 Yellow
02	000227aa	04	2005-07-08	16:15:57.318	AB		70.1	2.8	1.2	0.7	2	2	1.00	2	00020042	SV 0 0	
02	000227ae	04	2005-07-08	16:15:58.037	AB		73.1	2.8	0.7	1.4	2	2	1.00	2	00020042	SV 0 0	
02	000227b2	04	2005-07-08	16:15:58.635	AB		72.8	2.6	0.6	2.0	2	2	1.00	2	00000020	SV 0 0	
02	000227b6	04	2005-07-08	16:15:59.839	AB		73.4	2.4	1.2	3.2	2	2	1.00	2	00000020	SV 0 0	
03	00000a2f	01	2005-07-08	16:16:00.668	RT		4.0	0.0								10000000	Ph1 All-Red
02	000227ba	04	2005-07-08	16:16:01.165	AB		83.0	3.0	1.3	0.5	2	2	1.00	2	00020042	SV 0 0	
02	000227be	04	2005-07-08	16:16:01.763	AB		82.1	2.3	0.6	1.1	2	2	1.00	2	00000020	SV 0 0	
03	00000a2f	01	2005-07-08	16:16:02.668	RT		2.0	0.0								10000000	Ph2 Red
02	000227c2	12	2005-07-08	16:16:03.066	AB		73.9	15.2	1.3	0.4	6	3	1.00	10	00000010	ART6 0 00 000	

- Included:**
 - Unlimited MTE software users
- Required:**
 - Survey field kit
 - Data communications cable
 - Optical fibre interface
 - Optical fibre
- Optional:**
 - Remote Access Link
 - ATLYST® online analytics
 - ATLYST® API



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