A Clear Picture Of Signalised Traffic
Monitoring traffic at signal controlled intersections and level crossings provides critical information regarding driver behaviour. The MetroCount RoadPod® PhaseT is a unique approach to collecting detailed traffic data, synchronised with intersection signal timings. The PhaseT is a descendant of our industry standard, the RoadPod VT. It has an additional optical fibre interface to detect and record changing signal phases in parallel with traffic data.

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 allows users to use common signal phases or define their own Phase Map. Signal phases for traffic lights are synchronised with the traffic data.

Common Use Examples:
Pairing traffic data with traffic signals has a number of implications in traffic management and enforcement.
• Isolating volume and speed during the yellow or warning phase of traffic lights to assess driver reaction times and inform signal timing.
• Analysis of driver behaviour at intersections to direct intersection design and modification.
• Classification of vehicles crossing intersections during different phases identify potential infringements.
• Monitor rail crossing volume during the stop phase of the traffic signals to assess effectiveness of signals.

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

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Traffic Light Phase Statistics

Example

**Phase = Yellow**
- Vehicles = 4310 (4.93%)
- Exceeding Speed Limit = 3386 (78.56%)
- Maximum = 132.4 km/h
- 85% Speed = 77.46 km/h, 95% Speed = 84.86 km/h

**Phase = Red**
- Vehicles = 437 (0.50%)
- Exceeding Speed Limit = 348 (79.63%)
- Maximum = 129.0 km/h
- 85% Speed = 84.29 km/h

**Phase = Green**
- Vehicles = 82715 (94.57%)
- Exceeding Speed Limit = 21712 (26.25%)
- Maximum = 159.7 km/h
- 85% Speed = 68.15 km/h

Sample phase analysis of traffic lights.

RoadPod® PhaseT 5712
Hardware Specifications

**Sensors:** Pneumatic tubes (road traffic), optical fibre (traffic signals)

**Tube spacing:** 80-120 cm (100cm by default)

**Internal battery:** 6V 18Ah, 4 D alkaline cells

**Memory:** Up to 1 million axles

**Time resolution:** Better than 1ms

**Enclosure:** Dual system with stainless steel road case and PVC internal unit

**Included:** MTE software, operating manual

**Required:** Field kit, data communications cable, optical fibre interface, optical fibre

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