PRODUCT SOLUTIONS FOR
INTELLIGENT TRAFFIC SYSTEMS

AGD **350**
TRAFFIC CONTROL RADAR

Application Study – AGD 350 Traffic Control Radar Legacy Loop and Magnetometer Replacement

Requirement

All around the world, intersection and crossing control have come to rely on the ability of loops and magnetometers for in-road detection. There are problems with these intrusive technologies however. Every installation needs a road crew to close the junction and either drill holes or cut loops into the road surface, digging trenches and laying cables. Complex radio setups are often required too. Not only does this require capital expenditure to buy and install the equipment, there's also the constant operating expenditure required for maintenance as weather and traffic take their toll. Add to this the effects of junction closures on traffic flows that go with all intrusive in-road installations – even for a battery change – and possibly the biggest limitation: the inflexibility of the technology. For example, as traffic speeds change we can't move loops to maximise traffic flows and improve pedestrian safety, so potential efficiencies are lost.

- Non-intrusive Loop Replacement
- Low Install & Maintain Costs
- Simple & Flexible AGD Touch-setup

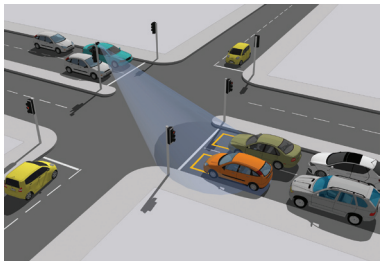
- Dual Lane Stop Line Detector
- Intersection Approach or Zones
- MOVA compatible with AGD 318 Radar

- Accurate Virtual-loop Technology
- Enforcement Pedigree
- Controller Interface

Solution

The use of new, non-intrusive radar solutions can solve these issues. The AGD 350 Traffic Control Radar has the power to transform intersection detection where one unit can emulate multiple inductive loops in multiple lanes. Building on the strengths of its successful enforcement-grade predecessor which is currently being used around the world for violation detection, the 350 is a multi-lane stop line and approach detector that removes the need for loops, and allows for improved safety and traffic control.

With its two modes of operation, the 350 can be used in a number of intersection control applications. It can simulate up to 12 inductive loops in multiple lanes and provide occupancy information down to vehicle speeds of 4 kph. Inductive loop emulations are fed into existing traffic controllers with AGD's new Janus8 ITS interface card. Where stationary detection at the stop line is required, traffic engineers can deploy the 350 on existing infrastructure and its dual opto outputs allow it to interface directly with controllers.



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Easy Install

Unlike intrusive detection solutions, the new 350 is easy to install and highly flexible, so when detection zones need moving or junction layouts change to improve traffic flows, the costs are a fraction of what they have been. The 350 comes with new AGD Touch-setup, a feature that allows any WiFi enabled device to configure an AGD detector without downloading software. Touch-setup displays what the radar can see, enabling the installer to simply drag and drop detection zones.

Outcome

The AGD 350 is more cost effective to install than intrusive detection alternatives, removing the need for expensive ducting or creating weak points in the road surface. It is also virtually maintenance-free. With AGD Touch-setup technology, and its simple drag-and-drop configuration tool, the virtual-loops can be placed in moments and moved just as quickly.

Offering accurate detection of multiple targets, flexibility and long life, the 350 platform will see future upgrades that continue to address the issue of intrusive detection and the need to occupy road space or cut into our increasingly valuable road surfaces.

The 350 will provide accurate year-round detection unaffected by light conditions, headlights, weather, or battery power loss - as sometimes seen with other solutions. Partnered with an AGD 318 Traffic Control Radar, the 350 can also be used as part of a highly efficient MOVA implementation.

Preview the Future

The AGD 350 Traffic Control Radar can be deployed on its own or with other detection to cover entire approaches to intersections or specific areas within them. Looking ahead, AGD aspires to completely replace expensive intrusive devices with a suite of flexible, high-reliability, lower TCO, proven radar technology that will inform the Smart Cities of tomorrow.

You can see the future of traffic detection now. The new AGD 350 Traffic Control Radar is previewing at Traffex for launch later in 2017.

AGD, product solutions for Intelligent Traffic Systems

Traffic & Pedestrian Control

Highways

Enforcement

Tunnel & Track