

## DEPARTMENT OF PUBLIC WORKS

NO. 320

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AGRÉMENT SOUTH AFRICA  
(Approval of innovative construction products and systems)

Notice is hereby given that Agrément South Africa has, with effect from 10 December 2015, issued an Agrément certificate, details of which appear in the schedule hereto.

**SCHEDULE**  
Agrément Certificate 2015/500

**Name of product:** Permanent Axle Traffic Monitoring System with AUTOPIZO8

**Certificate holder/  
System supplier:** Mikros Systems (Pty) Ltd t/a Syntell Group Company

**Description:** Permanent Axle Traffic Monitoring System with AUTOPIZO8 is a combination of dual intrusive loops and piezo sensors. The system consist of a dual intrusive loop, RAKTEL X010/20, MICROSAC card, RAKMAN Power Manager Card, Battery, AUTOPIZO8 axle interface card, Single axle sensor, Colseal or similar approved sealant and GPRS modem to download data. The AUTOPIZO8 axle interface card evaluates the signals from vehicles and automatically scales the threshold and sensitivity levels per individual channel. For the AUTOPIZO8 card to operate effectively a minimum number of light vehicles must traverse the Piezo sensors.

Dual intrusive loops are permanent embedded loops into concrete or asphalt pavement covered with Colseal or similar approved sealant. Loops are 3 m x 1 m x 50 mm (nominal dimensions) with one or more turns of cross-linked polyvinylchloride (PVC) wires and are installed over the full width of a roadway on new and existing roads. The piezo sensors are installed in the same manner as the dual intrusive loop using the RG58 coaxial cable as feeder and are regarded as a single axle sensor. Site requirements are as specified in Chapter 10 of the **TMH3**.

The system was assessed for use on roads and is classified as Type B1 traffic monitoring system, which means that the system is valid for:

- highest level of detection and a relatively high level of vehicle classification (categorization)
- speed and axle detection without single/dual tyre detection.

The Agrément certificate contains detailed information on the product and can be accessed at <http://www.agrement.co.za>

Copies are obtainable from: Chief Executive Officer (CEO)  
Agrément South Africa, P O Box 395, **PRETORIA**, 0001