

## DEPARTMENT OF PUBLIC WORKS

NO. 309

18 MARCH 2016

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 2015/502

**Name of product:** Permanent Axle Traffic Monitoring System with WYPROS I WIM

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

**Description:** Permanent Axle Traffic Monitoring System with WYPROS I PWIMs consist of a dual intrusive loop, Piezo sensors, RAKTEL X010/20, MICROSAC card, RAKMAN Power Manager Card, Battery, WYPROS I PWIM axle interface card, Single axle sensor, WINTER98 temperature card, Colseal or similar approved sealant and GPRS modem to download data. Permanent Axle Traffic Monitoring System with WYPROS I PWIMs is a combination of dual intrusive loops and piezo sensors. The WYPROS I PWIM card is to process the signals from up to four piezo weigh sensors. WYPROS I PWIM card needs to have a WINTER98 Piezo temperature card to read the temperature of a temperature probe.

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 intrusive loop using the RG58 coaxial cable as feeders 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