



Traffic Management Solutions





MX Controller

With more than 30 years' experience in the design and manufacture of traffic control systems Syntell introduced the MX controller range to update our available range.

As to be expected from Syntell a traffic control solution that offers all the sophistication required to address today's traffic engineering challenges whilst at the same time providing a system solution that more than complements the stressed environment in which it has to operate.

The system is fully modular and very robust, but above all it is simple to install and maintain. Highlights of this new controller is its ability to withstand 400 VAC without damage and aspect Neutral fault detection.

M4 Controller

Syntell is the leading developer of advanced technology road traffic management systems in Southern Africa. Several South African cities and cities around the globe are currently using our technologies to manage the increasing challenges of traffic flow.

The M4 Series traffic controller allows the customer to custom build configurations to suit the need of their traffic flow demand. Syntell currently provides traffic systems throughout South Africa and neighbouring countries and holds a 60% market share. In every sense, Syntell's work in improving traffic flow and motorists' behaviour is a social responsibility task more than anything else.



Traffic Control Instation

The intelligence behind every smooth operating traffic system. The Syntell RMS (Remote Management System) is a cost effective traffic management tool, designed for the transport authorities. The system communicates with the on-street traffic controller to provide remote monitoring of traffic flow and status of the traffic controller and intersection. Flexibility in architecture allows systems to be tailored to meet specific requirements of your organisation.

Systems range from complex implementations integrated with Area Traffic Control (ATC) Urban Traffic Control (UTC) / Split Cycle Offset Optimisation Technique (SCOOT) to basic monitoring functionality. Swarco's Omnia solution incorporates their SPOT Utopia UTC.

The system can utilize simple GPRS over GSM networks to communicate with the Controllers, as well as any IP based network infrastructure that may already be in place.



“30 years' experience in the design and manufacture
of traffic control systems”

Partners

Swarco Futurled Traffic Signal Modules

With close on 3 million Futurled LED modules units sold worldwide, Swarco Futurit commands its outstanding position and know-how in LED signalling technology. Over 15 years of experience in the development and manufacture of LED-based signals allow us to offer highly reliable, state-of-the-art products. The central light source combined with the dual lens system enables a brilliant and very uniform signal display. A modern signal head, the Futura's slim and elegant design will change the look of urban landscapes around the globe, whilst offering a new level of efficiency and environmental respect. Swarco of Austria provides a wide range of ITS solutions including colour VMS (Variable Message Sign) meeting extreme environmental requirements.

Accessible Pedestrian System

An Accessible Pedestrian System (APS) is an audio and tactile system that gives you Accessible crosswalks and helps to make your city pedestrian friendly. This APS provides much of the information already available to sighted pedestrians to vision impaired pedestrians. Already standardised in many cities in Southern Africa.

Sensys Networks Wireless Vehicle Detection System

The Sensys Networks solution utilises wireless magneto-meter sensors to detect the presence and movement of vehicles. Flush-mount sensors combine a state-of-the-art magnetometer and a

low-power radio in a small, hardened plastic case suitable for installation directly in the pavement. These sensors – installed in small holes cored in the roadway – transmit detection data in real-time via low-power radio technology to a nearby access point. Vehicle detections are further relayed to a traffic signal controller or remote traffic management centre. Incident detection can be deployed on motorways.

FLIR TrafiCam Series Vehicle Sensors

The TrafiCam series of vehicle presence sensors combines a CMOS camera and video detector in one.

The series includes two basic products

- TrafiCam : vehicle presence sensor
- TrafiCam x-stream : vehicle presence sensor and data collector with video streaming

Both the TrafiCam and TrafiCam x-stream sensors are used for detection and monitoring of moving and stationary vehicles at signalized intersections. The smart TrafiCam sensors are a cost-effective and reliable alternative to inductive loops.

Thermal cameras and TrafiCam's are also available for specialist applications. Advanced detection technology solutions designed for the detection of moving and stationary vehicles (objects) for applications in junction control, presence detection, queue and other strategic detection.





Mikros Systems

Providing affordable and reliable traffic monitoring products through an innovative design and engineering approach using appropriate technologies

A family of traffic data loggers ranging from the RAKTEL 8010 to the RAKTEL 1010 all sharing the same interface cards and support software. The loggers are used for applications such as loop only traffic monitoring, axle based classification and High Speed Weigh In Motion.

The RAKTEL loggers with axle sensors have been successfully implemented as Toll Traffic Monitoring stations at Toll Plazas operated in South Africa. The data from these dual-station installations provide an excellent independent check on the toll operators and have proved to be an indispensable deterrent against fraudulent activities at the plazas. These systems are a standard requirement of the South African Roads Agency Limited for monitoring their toll operations.



— MIKROS SYSTEMS — 





Mikros Traffic Monitoring

MTM was established in 1998 as part of a Government outsourcing initiative during the establishment of the South African National Roads Agency and specialises in electronic traffic data collection services.

Now part of the Syntell Group of companies, the company has, over the past years, established its credentials in this field and currently enjoys the position of being Southern Africa's leading traffic & WIM data service provider.

We supply a high quality range of traffic data collection and weigh-in-motion services. Our clients include SANRAL, several SA provinces, toll concessionaires, consulting companies and private developers

Mikros Traffic Monitoring Systems Integration

In addition to electronic traffic data collection services, MTM also specialises in the integration and maintenance of traffic monitoring and control systems for Traffic Control Centres for SANRAL and the toll concessionaires. MTM expanded the use of WIM technology to provide WIM screening of heavy vehicles and currently provides the WIMs in use for screening (HSWIM & LSWIM) at all of the weighbridges in South Africa. As the current leaders in Traffic Management innovation, MTM have taken this technology to a whole new level, which includes the integration of number plate recognition with WIM data.

This together with our Joint Information System (JIS) which links real-time into eNatis allows us to extract detailed company overloading statistics, as well as being useful in adjusting the accuracy of WIM's through direct comparison of results with static weighbridges.





Syntell (Pty) Ltd

Cape Town
64 – 74 White Road,
Retreat 7945
Tel : +27 87 237 7011
Fax : +27 865 397 704
PO Box 30298,
Tokai, 7966 South Africa

Johannesburg
19 Richards Drive, Gallagher House,
Block B, Level 2, Midrand, 1682
Tel : +27 11 582 2500
Fax: +27 11 312 4891
PO Box 6956, Halfway House,
1685 South Africa

Pretoria
116 Fascia Road
Silvertondale 0184
Tel: (012) 804 1710
Fax: (012) 804 4706
South Africa

Syntell is a leading blue chip company providing cutting edge technology-based services and systems for road safety, traffic management and revenue collection. Syntell was originally part what was Plessey South Africa which was founded in 1963. As a trusted partner to local, regional and national governments around Africa and the world, Syntell understands the dynamics of effective public-private partnerships when it comes to the needs of cost-effective service delivery. Syntell is majority-owned by JSE listed Hoskins Consolidated Investments (HCI).

Note that Syntell supports the principles of Employment Equity

Please contact Syntell for more information at
info@syntell.co.za or visit www.syntell.co.za

www.syntell.co.za