The Intelligence Behind Every Smooth-Operating Intersection

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 including Malaysia and Argentina, 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.
FEATURES:

- Windows based configuration and emulation tools
- Modular, user definable build
- Centralised and local control
- UTC and SOOT compatible
- Parallel stage streaming for multiple junctions
- Modular 6 to 24 phases (4 x 6 phase modules)
- 32 stages including All Red
- 32 User defined detector inputs [software configurable]
- Pre-emptive stage calls
- Manual panel facility [optional]
- Comprehensive conflict monitoring
- Range of communication technologies including GPRS to central computer
- Configurable mode precedence
- Tolerant of long “brown outs” on supply
- Tolerant of unstable or varying supply
- Reliable lightning protection
- Locally stored event log
- LCD user interface
- Comprehensive lamp monitoring reports to central computer
- Unique machine ID reported to central computer
- Full Remote Monitoring System capability [cable or wireless] option
- Redout monitoring
- Configurable phases Profiles in different Plans

MODES OF OPERATION


NUMBER OF PLANS

- 50

Includes 7 externally forced plans with offsets [Master Slave linking]

STREAMS

- 4 (each operating independently)

NUMBER OF STAGES

- 32 stages, including All Red, user configurable in terms of plan in which to run phase combinations, priority, demand dependency and duration.

NUMBER OF PHASES

- Modular up to 24 hardware phases in increments of 6. User configurable in terms of stage relationship, demand dependency and duration, type of movement. Two Software Phases

TIMING GRADUATIONS

- Plans: Cycle time: 0-255 sec in 1 sec increments
- Phases: Min Green: 0-255 sec in 1 sec increments
- Yellow: 0-25.5 sec in 0.1 sec increments
- Red: 0-25.5 sec in 0.1 sec increments
- Vehicle Detector:
- Gap Timer: 0-25.5 sec in 0.1 sec increments
- Extension Timer: 0-25.5 sec in 0.1 sec increments
- Cancel Delay: 0-25.5 sec in 0.1 sec increments
- Call Delay: 0-25.5 sec in 0.1 sec increments
- Emergency Call: 0-255 in 1 sec increments
- Manual Time-out: 0-60 minutes in 1 min increments
- Start-up flash: 0-25.5 sec in 0.1 sec increments

SAFETY MONITORING

- System: Dual path green monitoring
- [conflict or drive non-conformance]
- Green Drive: On / Off threshold is in the range of 35 V to 55 V
- Conflict Matrix: Compares green lamps being driven with matrix of permitted combinations

ELECTRICAL:

- Voltage: Nominal 230 V 80%-115%
- Frequency: 50 Hz - 48 Hz - 52 Hz
- Supply Interruption: Up to 50 ms at nominal supply voltage
- Lamp Dimming: Optional
- Service Socket: 15Amp
- Lamp Switching: 16 Amp Triacs

ENVIRONMENT:

- Description
- Test Conditions
- Specifications
- Cabinet waterproofing
- Leakage
- IP 55
- Temperature cycling
- Bump 1000 Bumps
- Max 50°C, min - 10°C
- Storage:
- Bump 1000 Bumps
- IEC 60068-2-29B6
- Dry Heat
- Max 50°C, min - 10°C
- IEC 60068-3-1
- Dry Cold
- 55°C, 16 Hrs
- IEC 60068-2-2
- Humidity
- -10°C, 16Hrs
- IEC 60068-2-1
- Vibration
- 40°C, 24hrs
- IEC 60068-2-3
- Protective coatings
- 5 - 33 Hz
- IEC 60068-2-37 Fdc
- SABS 1274

DIMENSIONS:

- Model 4S - with plinth [430 Stainless]
- Model 4D [Aluminium]
- Height - 1425mm
- Height - 1380mm
- Width - 575mm
- Width - 607mm
- Depth - 310mm
- Depth - 360mm
- Weight - 65Kg
- Weight - 65Kg