

Regulatory VATCS

SCHOOL ZONE SERIES - CANADA

Independently-proven vehicle
activated LED traffic calming sign
solution for managing excessive
speed and reducing traffic fatalities in
both rural and urban roadway
applications*

** refer to TRL548 report*



VATCS are the only traffic calming display technology that has been federally field tested* on a large scale to prove long term effectiveness, with driver respect of the technology being maintained over a 5 year period.



VATCS displays have been selected to be nationally tested by FHWA across 8 states and have become the new industry standard in our home province of Ontario, with growing numbers in Alberta and British Columbia.

All Dorman Varitext regulatory school zone VATCS units employ microwave Doppler radar to detect vehicle approach speeds and in line with the core MUTCD philosophy of a consistent road speed management strategy, utilize RB-1 speed limit and WC-1 school zone diagrams that are already recognized in the MUTCD. Targeted drivers are not informed what speed they are travelling, rather they are advised of the regulatory posted speed limit with the request to "SLOW DOWN" further enhanced by dynamic flashing pairs of horizontal beacons. The School zone VATCS series are used in tandem with existing static school zone signage being deployed downstream as a targeted reminder and are not to be used as a replacement for the static signage or a repeater.

Unique technology

Independently proven as long term effective

6 kph average speed reduction maintained over 5 year period

1/3rd accident rate reduction attained over 5 year period

MUTCD Compliant

Based on core MUTCD philosophy of consistent driver information.

High intensity ITE color tested LED display, auto dimming

FCC compliant technology

Flexibility to adjust trigger speed to specific applications

Optional upgrade to remote internet access via Dorman Gateway

Flashing beacons provide dynamic element to sign face

Plug and play install (all cables, brackets provided)

Wireless Speed Data logging

Solar and AC 110V dual power source as standard

Robust Vandal resistant NEMA Type 3S rated housing

Optional Single or Dual Diagram Display

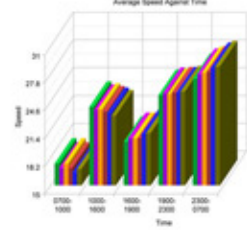
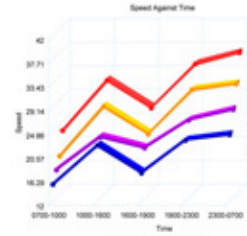
VAMP© Automated scheduling software



All VATCS come as standard with NEMA Type 6P modular plug and play install kit allowing simple and secure band mounted mechanical install and electrical connection. No special tools required for set up.

Regulatory VATCS

SCHOOL ZONE SERIES - CANADA



SPECIFICATIONS

| | |
|---|---|
| Model Reference | Regulatory VATCS - School Zone Series VATCSWC-1/RB-1_X/SD/L/DL/PT(Dual Diagram) VATCSWC-1/SD/L/DL/PT(Single Diagram) Note: Dual RB-1 Regulatory VATCS also available for this application, see separate data sheet |
| Display Technology | ITE color tested high intensity LED display, Optical performance in compliance with MUTCD and TR2136C, Auto Luminosity control to suit ambient light conditions. |
| Display Format | Color inverted MUTCD speed limit diagram, RB-1 (600 x 750mm) and WC-1 (600 x 600mm) size options, combined together in one sign or single WC-1 display, complete with matching Slow Down Message and amber flashing beacon pairs. Slow Down text height 100mm. Beacon size 5" (125mm) diameter. |
| Vehicle Detection | FCC compliant K band radar microwave vehicle detector integrated into the sign, factory preset range of 600 feet /190 Metres, Speed range of 5 to 150 mph (8 to 240 kmh). 12 degree beam accuracy +/- 1 unit of measure. Simple set up. |
| Model Dimensions | Size 1510mm high x 875mm wide x 150mm deep. |
| Model Weights | 45kg [plus batteries in case of solar] |
| Power Supply | Display is dual Solar DC and AC 110V compatible as standard. In the case of Solar power installs SP80S4 solar kits should be ordered for each sign comprising 80W panel, side of pole mount and 4 x 12V 20amp/hr battery reservoir which are mounted internal to sign. Important for 24/7/365 solar operation, solar panel must be facing due south and have clear unobstructed view of sky with no shadowing. Power consumption max. 100W. |
| Data logging and Analysis Software | DVNA's unique data logging software interfaces to the sign via Bluetooth™ connection with hand held PDA. Software records date, time, and speed of oncoming vehicles. Information can be remotely downloaded into Excel for analysis. Standard memory provides for 11 Million vehicle data entries. |
| Enclosure | Purpose fabricated lightweight vandal resistant NEMA Type 3S Ingress rated enclosure |
| Finish | Matt Black front face Aircraft Grey rear powder coat finish or color to suit, 60 micron min thickness. |
| Window | 5mm anti reflective Polycarbonate |
| Operating Temp Range | -35° C to + 74° C , 95% non condensing |
| Mechanical Interface | Sign will be supplied equipped with 4 No SX0220 channel banding interface brackets as standard to allow 3/4" band mounting to a variety of support posts. Solar Panel equipment is supplied with side pole mount to allow 3/4" banding. The Sign fix channel runs full width of sign to allow offset mounting if required. |
| Electrical Interface | Cable kits are supplied to facilitate plug and play connection to solar panel and sign. Sign also equipped on rear with naked AC plug and socket Type 6P connection and separate 20mm knock out for conduit cable entry. Dust Caps are supplied to protect any unused sockets. Internal power connections are screw terminal. |

OPERATION

The VATCS sign is designed to operate in both ACTIVE and STEALTH Mode.

STEALTH Mode is used to allow client to attain a baseline of road speed from the VATCS without the VATCS displaying any visual warning to the approaching traffic.

Once collected this base data can be compared against existing historic data and then importantly used to evaluate performance of the sign in ACTIVE MODE.

Once in ACTIVE MODE the sign upon detecting an approach speed above the pre-configured trigger speed will cause the warning display to be illuminated for 3.5 seconds giving driver sufficient time to adjust behavior appropriately. When vehicles are travelling below the trigger speed the sign will remain entirely blank; importantly the warning message is only targeted at offending vehicles. Trigger speeds are selected from a preprogrammed table and it is normal practice for posted speed limit sign applications to set this to the posted speed plus 10% plus 2 kph (eg. In a posted 40 kph zone, the sign would be set to trigger at 46 kph).

Optional VAMP® Desktop Scheduling Software allows the operator to automate sign operation to school calendar in dual diagram VATCS models. Schedules are uploaded to the signs via PDA using Bluetooth to reflect regulatory conditions. A common example might be a school zone application where WC-1 diagram is used to emphasize school warning during school peak operation hours.

All VATCS are supplied with a comprehensive operation manual which contains a guide to installation best practices. It is recommended that these practices are followed to ensure optimal performance and results.

DORMAN
VARITEXT

DVNA Head Office:
173 Main Street, Bath,
Ontario K0H 1G0
Canada

email:
enquiry@dormanvaritext.com
website :
www.dormanvaritext.com

Canada School Zone Dual Diagram - VATCS

Uniplan Product Coding

Vehicle Activated Traffic Calming Signs



DUAL DISPLAY



Model:
VATCSWc-1/RB-1,40/SD/L/DL/PT

Uniplan Part Number:
SVWRB-1GSLDPCAP (60 x 60cm)

SINGLE DISPLAY



Model:
VATCSWc-1/SD/L/DL/PT

Uniplan Part Number:
SVW---SLDPCAP (60 x 60cm)

DUAL DISPLAY



Model:
VATCSWc-1/RB-1,50/SD/L/DL/PT

Uniplan Part Number:
SVWRB-1ISLDPCAP (60 x 60cm)

DUAL DISPLAY



Model:
VATCSWc-1/RB-1,60/SD/L/DL/PT

Uniplan Part Number:
SVWRB-1KSLDPCAP (60 x 60cm)

173 Main Street, Bath
Ontario
K0H 1G0
Phone: (613) 352-3458
Fax: (613) 352-6845
E-mail: enquiry@dormanvaritext.com
Website: www.dormanvaritext.com

