Regulatory VATCS – Posted Speed Series

Sending a clear message to targeted drivers of posted speed limit requirements to make roads safer in your community

Independently proven to be long term effective

6.5kph reduction on average speed maintained after 3 years - TRL 548 report

1/3rd drop in accident rate after 3 years - TRL 548 report

Dynamic flashing corner beacons attract driver attention

MUTCD compliant

Clear speed management strategy in line with MUTCD

Dual speed diagram models available for school zones

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INTELLIGENT ENGINEERING, UNIQUE PEOPLE, WORKING TOGETHER

Proven Traffic Calming Solutions

All regulatory 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-1speed limit 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.

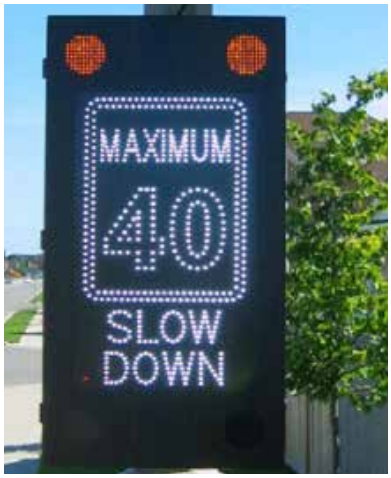
The VATCS series are used in tandem with existing static Regulatory Posted Speed Limit signage being deployed downstream as a targeted reminder and are not to be used as a replacement for the static signage.

Posted Speed VATCS are available in a range of Rb-1diagram sizes from 400mm x 510mm to 600mm x 750mm.

Deploying the VATCS family sign series will provide a consistent and clear approach for managing driver speeds in your community.

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.

First introduced in 2008 after being piloted by various communities in Ontario, VATCS are now in operation across 5 provinces and are steadily becoming the benchmark for consistent community display based traffic calming.



Technical Data

Model Reference	Regulatory VATCS – Posted Speed Series VATCSRb-1,X,Y/SD/L/DL/PT (Single or Dual Speed Diagram)
Display Technology	ITE color tested high intensity LED display. Optical performance in compliance with TAC MUTCD, Auto Luminosity control to suit ambient light conditions.
Display Format	Color inverted MUTCD speed limit diagram, Rb-1(600mm) and (400mm) size options, dual speed limits combined together in one sign or single limit displays, complete with matching Slow Down message and amber flashing beacon pairs. Slow Down text height 75mm and 100mm to suit both 400mm and 600mm model sizes respectively. Beacon size 102mm and 127mm diameter respectively.
Vehicle Detection	FCC compliant K band radar microwave vehicle detector integrated into the sign, factory preset range of 600 feet / 190Metres. Speed range of 8 to 240kmh. 12 degree beam accuracy +/-1 unit of measure. Simple set up.
Model Dimensions	1510mm high x 875mm wide x 150mm deep 1150mm high x 610mm wide x 150mm deep
Model Weights	600mm Size 45kg (plus batteries in case of solar) 400mm Size 27kg (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 20amphr 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.
Data Logging and Analysis Software	Datalogger windows based software is available to download date and time stamped traffic speed data from sign over Bluetooth™ for evaluation analysis in Excel.
Sign Configuration	Custom windows based software over Bluetooth™ wireless connection from client supplied Laptop or Netbook.
Scheduling	VAMP© windows based scheduler software is available to create schedules for upload to the dual diagram versions of the sign, enabling automated operation in accordance with the time of day posted speed limits in your school zone. Operator can schedule 10 different switching intervals per day and 40 exception periods per year.
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 sign fix U channel supports on rear and SX0220 channel banding interface brackets to allow ¾" band mounting to a variety of support posts. Solar Panel equipment is supplied with side pole mount to allow ½" banding.
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 ¾" 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 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 drivers sufficient time to digest and adjust behaviour 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. It is normal practice for posted speed sign applications to set this to 10% + 3kph (e.g. In a posted 40kph zone, the sign would be set to trigger at 47kph).

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 Bluetooth™ to reflect regulatory conditions by time of day.

All VATCS are supplied with full operator manual which contains a guide to installation and set up best practices, which it is recommended are followed to ensure optimal performance and results.

Single Posted Speed

Model
VATCS/RB-1,40/SD/L/DL/PT

Uniplan Part No.
RVRB-1G-SLDPCBP (60 x 75cm Size)
RVRB-1G-SLDPCAP (40 x 51cm Size)

Model
VATCS/RB-1,50/SD/L/DL/PT

Uniplan Part No.
RVRB-1I-SLDPCBP (60 x 75cm Size)
RVRB-1I-SLDPCAP (40 x 51cm Size)

Model
VATCS/RB-1,60/SD/L/DL/PT

Uniplan Part No.
RVRB-1K-SLDPCBP (60 x 75cm Size)
RVRB-1K-SLDPCAP (40 x 51cm Size)

Dual Posted Speed

Model
VATCS/RB-1,40,50/SD/L/DL/PT

Uniplan Part No.
RVRB-1GISLDPCBP (60 x 75cm Size)
RVRB-1GISLDPCAP (40 x 51cm Size)

Model
VATCS/RB-1,50,60/SD/L/DL/PT

Uniplan Part No.
RVRB-1IKSLDPCBP (60 x 75cm Size)
RVRB-1IKSLDPCAP (40 x 51cm Size)

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