



**Aldridge  
Traffic Systems**

# PORTABLE ROADSIDE TECHNOLOGY

# ABOUT US

Aldridge Traffic Systems Pty Ltd (ATS), a subsidiary company of Traffic Technologies Ltd has over 40 years experience with a state of art manufacturing centre situated at Rhodes, NSW, Australia and head office at Eltham, Victoria, Australia.

Our substantial resources and efforts are totally committed to designing, manufacturing and supplying products and services to the traffic signaling industry.

Our distribution network includes offices throughout Australia and the United Kingdom. We have agents and distributors in Ireland, Denmark, France, Spain, Singapore, Malaysia, Thailand, Sri Lanka, India, New Zealand, USA, North America, South America, Canada and UAE.

Aldridge Traffic Systems Pty Ltd is quality endorsed to ISO 9001-2008, licence number QEC0128 . Our quality management system covers all the requirements of this standard and embodies our core processes of customer service, product development, manufacture and delivery, while a dedicated Quality department ensures the management, monitoring and improvement of the system.

Aldridge Traffic Systems Pty Ltd is represented on Australian Standard Committees, as well as other industry associations, and has received numerous awards in recognition of its contribution to the economic growth of New South Wales.

An experienced team of managers and engineers have exceptional knowledge of the traffic signal industry, along with a consistent research program ATS ensures that our products incorporate the latest technology and enables us to meet and exceed the expectations of our customers.

We continue with new product development and obtaining product approvals and through this activity we continue to broaden our product base.



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# FLASHING ARROW SIGN

## 'B' SIZE

ATS Flashing Arrow Sign – Type B complies with specifications AS/NZS4192: 2006 and RTA FAS/5.

The sign is designed for roof mounting on vehicles. It is fully self-contained to provide advance and directional traffic information whilst minimising power consumption.

ATS Arrow Signs are constructed with aluminium frames and panels and are powder coated to give a lightweight durable piece of equipment.



### FEATURES

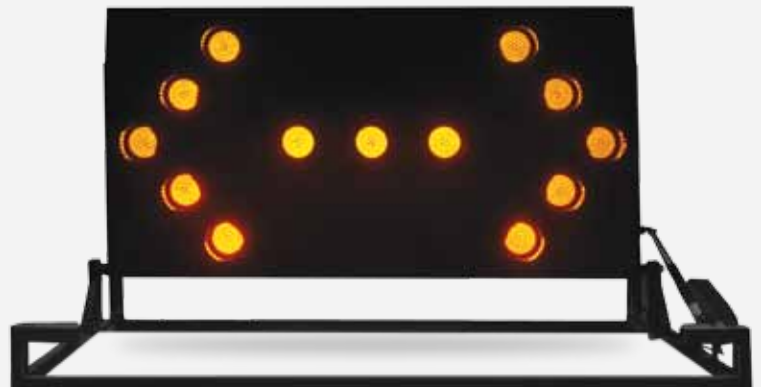
- » Microprocessor controlled
- » Low voltage protection with automatic switch to warning mode for overload protection
- » Built-in lamp failure detection
- » Fail-safe operation of the sign under fault conditions
- » Four operational modes: Arrow Right, Double Headed Arrow, Arrow Left, Warning
- » LED controller display for operation status
- » Automatic dimming facility in conjunction with an in-built light sensor
- » Luminous intensity levels and colour as per AS/NZS 4192:2006 specification
- » 50,000 hour ultra bright LEDs
- » Operates reliably under all weather conditions
- » LED Rotator Beacon with white LED's with amber cover. Multi-function strobe/flash with rotator effect.

### SPECIFICATIONS

MODEL	TYPE B
<b>Size</b>	770 x 1500
<b>Panel Weight</b>	24 kg
<b>No. Lamps Face</b>	15
<b>Maximum Current</b>	8 amps
<b>Flash Cycles</b>	35-40 per minute
<b>Visibility Distance</b>	860 metres

### CATALOGUE NO. DESCRIPTION

ABV-RA7001	Arrowboard B Vehicle Mount STD
ABV-RA7001C	Arrowboard B Vehicle Mount AS Compliant
ABV-RA7001-R	Arrowboard B Vehicle Mount STD Rotator Option
ABV-RA7001C-R	Arrowboard B Vehicle Mount AS Compliant Rotator Option
ERB-A-12V	Emergency Rotating Beacon Amber 12v LED
ERB-C-12V	Emergency Rotating Beacon Clear 12v LED



# 'C' SIZE

ATS Flashing Arrow Sign –Type C complies with specifications AS/NZS4192: 2006 and RTA FAS/5.

The signs are designed for purpose-built trailers. They are fully self-contained to provide advance warning and directional traffic information whilst minimising power consumption.

ATS Arrow Signs are constructed with aluminium frames and panels and are powder coated to give a lightweight durable piece of equipment.

## TRAILER FEATURES

- » Latest in solar powered and LED technology
- » Continuous operation without solar assistance for 7 days
- » LED Lanterns are fail-safe, energy efficient and of high intensity
- » Meets the Wind Load requirements of AS1170.2 for Region A, Terrain Category 2
- » Automatic dimming for night time operation
- » Lockable enclosure protects the control unit, battery etc. from weather and vandalism
- » Removable tow coupling and lockable wheels with chains for extra security

## SPECIFICATIONS

MODEL	TYPE B
<b>Size</b>	1200 x 2400
<b>Panel Weight</b>	35 kg
<b>No. Lamps Face</b>	15
<b>Maximum Current</b>	10 amps
<b>Flash Cycles</b>	35-40 per minute
<b>Visibility Distance</b>	860 metres

## CATALOGUE NO. DESCRIPTION

ACT-RA7001	Arrowboard C Trailer Mount STD
ACT-RA7001C	Arrowboard C Trailer Mount AS Compliant



# PORTABLE TRAFFIC SIGNAL

ATS Portable Traffic Signal (PTS) utilises the latest in microprocessor and Radio Frequency (RF) technologies to provide a cutting edge product.

The PTS is a dual-trailer system of a Master and Slave trailer, which can be inter-connected together as a single unit for easy transport with a single vehicle. Set up of the system can be performed by one person and takes less than 10 minutes to transform from trailer to operating position.

The solar powered system is capable of running non-stop for more than a week under ideal conditions and is fitted with an in-built 240 Vac charging system, when conditions are unsuitable for maintaining the battery charge.

## FEATURES

### Portable Traffic Signals

- » Solar Powered with deep discharge battery
- » Built-in 240 Vac charging system
- » Single Lane Shuttle or Two Way crossing operation
- » Radio Link Master/Slave operation
- » Cable Linked remote control
- » All operational modes easily controlled from remote control
- » Secondary Lantern outputs for intersection control
- » Designed for RTA Equipment Specification No. PTS/3 for Portable Traffic Signals part A and B
- » Compliance with AS4191:1994
- » Menu driven, user friendly LCD and keyboard interface
- » Built-in fault log and warning on liquid crystal display
- » On-site configurable
- » IP45 trailer storage compartment
- » IP35 Signal Lanterns (IP65 optional)
- » U.V. stabilised components
- » Modular components

## CATALOGUE NO. DESCRIPTION

APTS-TMS	ATS Portable Traffic Signal Trailer Master & Slave
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### Modes of Operation

- » Vehicle actuated Shuttle Auto
- » Shuttle Manual
- » Fixed cycle Shuttle Timed
- » Manual Two-way Crossing
- » Yellow Warning Flash
- » All Red
- » Blank

### Microwave Detector

- » Typical range 35m
- » Detection width up to 2 lanes
- » Minimum detection speed of 8 km/h (adjustable to 4 km/h)

### Radio Communication Link

- » 900Mhz operating frequency
- » Channel Hopping
- » 1 km range

### Signal Lanterns

- » Meets all requirements of AS2144-2002
- » High luminous output
- » IP35 protection (IP65 optional)
- » Coloured lens in compliance with colour requirements of CIE/AS2144-2002
- » LED type with long term reliability and operational life

### Power Supply

- » 54W Solar Panel
- » 92 A hr 12V deep discharge sealed gel lead acid battery
- » 240 Vac 7A battery charging system

### CATALOGUE NO. DESCRIPTION

APTS-TMS      ATS Portable Traffic Signal Trailer Master & Slave



# VARIABLE MESSAGE SIGN VMS 'B' SIZE

ATS Variable Message Sign B – is a trailer-mounted self-powered VMS board with remote messaging and radar speed display capabilities. The VMS can display multi-message full graphics in various font styles. It utilizes high brightness LED technology for superior visibility in all light conditions.

## FEATURES

- » Fully Solar powered with backup battery
- » Designed to AS 4852.2-2009
- » Rotatable mechanical tilt solar panels
- » Full Matrix Display, 1 to 4 lines of text, graphics & animation
- » High Quality Amber LED display
- » Non-glare UV polycarbonate screen
- » Graphical programming interface for instant message preview
- » Hydraulic sign-lifting mechanism
- » Lockable storage compartment
- » Matt black panel frame with reinforced front
- » Rotatable display sign panel
- » Automatic display dimming

## Controller and Programming

- » Multiple programming options: SMS, RS232 direct serial connection, Mini PC with touch screen
- » Windows compatible programmer
- » Large storage: can store up to 100 pre-defined images and individual messages with various page sizes

## Optional Extras

- » Radar includes fully integrated "Speed-Display" features
- » Mini-PC for on-site programming
- » Security Wheel Locks
- » Fully galvanized trailer

## SPECIFICATIONS

MODEL	TYPE B
Display Type (mm)	LED Full Matrix
Display Size (mm)	2030 x 1400
Display Viewing Area (mm)	1830 x 1200
Pixel Matrix	48 x 28
Size of LEDs (mm)	5
Enclosure	IP54, front access

## POWER

Batteries	2 x 12 Volt Deep-Cycle-200Ah
Battery Rating Voltage	12 Volts
Solar Panels	2 x 75 watts

## CATALOGUE NO. DESCRIPTION

AVMS-B	ATS Variable Message Sign B Trailer STD
AVMS-BC	ATS Variable Message Sign B Trailer AS Compliant





# VMS 'C' SIZE

ATS Variable Message Sign C – is a trailer-mounted self-powered VMS board with remote messaging and radar speed display capabilities. The VMS can display multi-message full graphics in various font styles. It utilizes high brightness LED technology for superior visibility in all light conditions.

## FEATURES

- » Fully Solar powered with backup battery
- » Designed to AS 4852.2-2009
- » Rotatable mechanical tilt solar panels
- » Full Matrix Display, 1 to 4 lines of text, graphics & animation
- » High Quality Amber LED display
- » Non-glare UV polycarbonate screen
- » Graphical programming interface for instant message preview
- » Hydraulic sign lifting mechanism
- » Lockable storage compartment
- » Matt black panel frame with reinforced front
- » Rotatable display sign panel
- » Automatic display dimming

## Controller and Programming

- » Multiple programming options: SMS, RS232 direct serial connection, Mini PC with touch screen
- » Windows compatible programmer
- » Large storage: can store up to 100 pre-defined images and individual messages with various page sizes

## Optional Extras

- » Radar includes fully integrated "Speed-Display" features
- » Mini-PC for on-site programming
- » Security Wheel Locks
- » Fully galvanized trailer

## SPECIFICATIONS

MODEL	TYPE C
Display Type (mm)	LED Full Matrix
Display Size (mm)	2700 x 1800
Display Viewing Area (mm)	2440 x 1600
Pixel Matrix	48 x 28
Size of LEDs (mm)	5
Enclosure	IP54, front access

## POWER

Batteries	3 x 12 Volt Deep-Cycle-200Ah
Battery Rating Voltage	12 Volts
Solar Panels	2 x 125 watts

## CATALOGUE NO. DESCRIPTION

AVMS-C	ATS Variable Message Sign C Trailer STD
AVMS-CC	ATS Variable Message Sign C Trailer AS Compliant



# VARIABLE MESSAGE SIGN

## VMS 'C' SIZE (COLOUR)

ATS Variable Message Sign C – is a trailer-mounted self powered VMS board with remote messaging and radar speed display capabilities. The VMS can display multi-message full graphics in various font styles. It utilizes high brightness LED technology for superior visibility in all light conditions.

### FEATURES

- » Fully Solar powered with backup battery
- » Designed to AS 4852.2-2009
- » Rotatable mechanical tilt solar panels
- » Full Matrix Display, 1 to 4 lines of text, graphics & animation and auto fit font
- » High Quality 5 colour LED display (Yellow, Red, Green, White, Blue)
- » Non-glare UV polycarbonate screen
- » Graphical programming interface for instant message preview
- » Hydraulic sign lifting mechanism
- » Fully galvanized trailer
- » Lockable storage compartment
- » Burnt orange panel frame with reinforced front
- » Rotatable display sign panel
- » Fault reporting
- » Automatic display dimming
- » Security locable wheels

### Controller and Programming

- » Multiple programming options: SMS, RS23, Mini PC with touch screen, GPRS
- » Windows compatible programming
- » Large storage: can store over 100 predefined images and individual messages with various page sizes

### Optional Extras

- » Radar includes fully integrated "Speed-Display" features
- » Mini-PC for on-site programming

### CATALOGUE NO. DESCRIPTION

AVMS-C5	ATS Variable Message Sign C 5 Colour Trailer STD
AVMS-C5C	ATS Variable Message Sign C 5 Colour Trailer AS Compliant

### SPECIFICATIONS

MODEL	TYPE C
Display Type (mm)	LED Full Matrix 5 Colour
Visible Approach Speed	110 km/h
Display Viewing Area (mm)	2400 x 1600
Pixel Matrix	48 x 28 / 50mm Pitch
Size of LEDs (mm)	5
Enclosure	IP65 front access

### POWER

Batteries	4 x 12 Volt 130Ah Maintenance Free
Battery Rating Voltage	12 Volts
Solar Panels	3 x 130W 12V



# ELECTRONIC SPEED LIMIT SIGNS (ESLS)

ATS Electronic Speed Limit Sign is a high visibility, programmable speed display for use in variable speed zones. The sign uses high intensity white LED display, red LED annulus and yellow LED conspicuity device. Utilizing the latest electronic technology, the sign is able to display bright, clear and concise speed limits as per AS1743, as well as simple messages and symbols in multiple frames with time based schedules. The sign is designed to communicate via the most commonly used RTA protocol.



## FEATURES

- » Full Dot Matrix LED display
- » Two or Three digit speed display or optional message display
- » High Brightness White LED display
- » Red LED Annulus display
- » Four corner yellow LED conspicuity module with variable flash sequence
- » Designed in accordance with Australian Standard AS 5156-2010
- » Timed-based schedule display function
- » Automatic light dimming
- » Communication Protocol in accordance to RTA TSI-SP-003
- » Matt black sign enclosure
- » 240V AC Input
- » Symbol Dimension as per AS1743

## SPECIFICATIONS

<b>Display Configuration</b>	40 Across x 20 Down
<b>LED Size (mm)</b>	5mm
<b>No Of Pixels</b>	800
<b>Power</b>	240V AC input
<b>Colour</b>	White (Main Display) Red (Annulus) Yellow (Conspicuity Device) Matt Black (Sign Enclosure)

## DIMENSIONS

	<b>Sign Size (mm)</b> As per AS 1743 R4-1	<b>Enclosure Size (mm)*</b>
<b>Type A</b>	450 x 600	550 x 700
<b>Type B</b>	600 x 800	700 x 900
<b>Type C</b>	900 x 1200	1000 x 1300
<b>Type D</b>	1200 x 1600	1300 x 1700

\*Enclosure Size may vary depending on various configurations.

## CATALOGUE NO. DESCRIPTION

A-ESLS-A	ATS Speed Limit Sign - A450x600
A-ESLS-B	ATS Speed Limit Sign B - 600x800
A-ESLS-C	ATS Speed Limit Sign B - 900x1200
A-ESLS-D	ATS Speed Limit Sign B - 1200x1600



# COMPLIANCE STATEMENT

## Flashing Arrow

### Signs-Type B & Type C

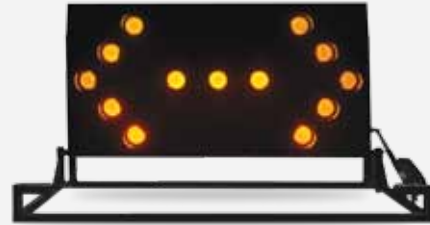
ATS Flashing Arrow Signs are designed and manufactured in compliance with AS4192:2006 and RTA QA specification FAS/5 (2007).

They have passed the environmental requirements such as temperature and humidity, wind loading, enclosure protection and shock and are vibration resistant as Stated in the Australian Standard and RTA specifications.

The products also comply with optical requirements such as Luminous intensity.

Both signs meet the electromagnetic requirements as stated in AS4192:2006.

ATS Flashing Arrow Sign B has been approved by Roads and Traffic Authority (RTA) NSW: 1102-FAS5-0-1B.



## Portable Traffic Signals

ATS Portable Traffic Signals are designed and manufactured in compliance with Australian Standard AS4191:1994 and RTA specification PTS/3 and PTS/4.

ATS portable traffic signals fully comply with the operational requirements stated in AS4191:1994 such as modes of operation, start-up sequence, start-up interlocks.

They have passed the environmental requirements such as temperature and humidity, wind loading, protection against atmospheric pollutants and enclosure protection as stated in the Australian Standard and RTA specifications. The device is also compatible with electromagnetic requirements such as radio interference suppression and are immune from any electromagnetic interference.





### **Variable Message Sign (VMS) B and C**

ATS VMS B and the VMS C are designed and manufactured in compliance with Australian Standard AS4852.2:2009. The products meet the electrical requirements such as automatic shutdown and restart. They comply with optical requirements such as Luminous intensity.

They have passed the environmental requirements such as temperature and humidity, wind loading and enclosure protection as stated in the Australian specification. They are also compatible with electromagnetic requirements as stated in AS4852.2:2009.



### **Variable Message Sign (Colour) 'C'**

The ATS 400C VMS fully complies with Australian Standard AS 4852.2 – 2009.

This includes:

- » Sign Enclosure Protection IP65
- » Display Intensity 13,500cd/m<sup>2</sup> (yellow)
- » Wind Loading 134Kph (with ballast tanks full)
- » Visible Approach Speed up to 110 Km/h
- » Solar Powered

The Sign is fitted with Satellite tracking for security.







# NOTES

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