

# ALDRIDGE

*Traffic Solutions  
beyond tomorrow.*



**ATS - ENVIROLITE**

**TRAFFIC**  
TECHNOLOGIES

[aldridgetraffic.co.uk](http://aldridgetraffic.co.uk)

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## **ALDRIDGE TRAFFIC SYSTEMS**

### TRAFFIC SIGNAL HEAD “ENVIROLITE”

The Aldridge Signal head is a high quality robust polycarbonate housing with LED lanterns specifically designed to meet all relevant European and UK standards. This simple modular design is made with 30% less plastic reducing our carbon footprint reducing global warming. Without losing its exceptional quality and functionality. It is easy to install and maintain providing a variety of signal head configurations for junction layouts. With LED lanterns available in 200 mm diameter for 230v & 48v AC power supplies they typically consume 20% less than an equivalent HI signal.

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## **PRODUCT**

### FEATURES

- Modular design
- Robust UV and weather resistant polycarbonate construction
- Illumination options for Tungsten Halogen LED Array & LED Central light source
- Easy to maintain with quick lamp change
- Robust locking and hinge mechanism on aspect doors
- Multiple aspect assembly options together with backing boards
- Inter-changeable doors to accommodate 200 mm or 300 mm aspect sizes
- Box sign kit available to accommodate TSRGD regulatory signs



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## **OPERATIONAL**

### FEATURES

- Clear front lens for maximum visibility
- Coloured lens corresponds to LED colour to minimize change of false recognition
- Available in 200 mm
- Available in 230v & 48v AC
- Optically tested LED array for uniform light output
- High luminous output
- IP65 protection against dust and moisture
- Low output degradation
- Specifically designed to comply with BSEN12368: 2006
- Operates in high temperatures
- Low power consumption
- Low output degradation
- LED light source for long term reliability and operational life
- Low sun-phantom intensity
- Low veiling reflection
- Retrofit optics available

## **TECHNICAL FEATURES**

### **HIGH POWER EFFICIENCY**

ATS LED lanterns consume less than 20% of power compared to a halogen lantern.

### **ACCREDITED MECHANICAL RELIABILITY**

ATS lantern housing and LED lanterns are CE certified and have passed rigorous environmental tests such as solar radiation, vibration, temperature, bump and IP65 specified in BSEN12368: 2006. It has a proven field record of long-term reliability.

### **LAMP FAILURE MONITORING**

Luminance intensity is controllable by varying input voltage or by phase control. The signals have linear dimming characteristics.

### **RETROFITTING**

The ATS aspect is available in standard 200 mm diameter. Therefore lanterns can be retrofitted into various brand of lantern housing.





## TECHNICAL DATA

### OPTICAL

TECHNOLOGY	IngaN and AlIngap high intensity LED
SPECIFICATIONS	TBC
UNITED KINGDOM	TR2206
EUROPE	BSEN12368:2006 / HD638
LUMINOUS INTENSITY	Class3:2 400-2500 cd
ANGULAR DISTRIBUTION	Table 4 Medium Wide beam
LUMINOUS UNIFORMITY	1:10
SUN PHANTOM	Class 5
SIGNAL COLOUR	Complies with BSEN12368:2006
COMBINED COLOURS	Complies with BSEN12368:2006
OPERATING TEMPERATURE	-15 °C to 70°C

## TECHNICAL DATA

### ELECTRICAL

	<b>230V MODEL</b>	<b>48V MODEL</b>
NORMAL BRIGHTNESS VOLTAGE	230VAC	48VAC
DIMMED BRIGHTNESS VOLTAGE	165VAC	2VAC
LINEAR DIMMING RANGE	160~230VAC	28~48VAC
OPERATING VOLTAGE RANGE	120~280VAC	20~55VAC
POWER CONSUMPTION		
<b>NORMAL</b>	10~12W	10~12W
<b>DIMMED</b>	5~6W	5~6W
POWER FACTOR	>0.97	>0.97
SWITCHING TIME	<120 ms	<120 ms