



Vehicle Activated Signs (VAS)

MAIN FEATURES	
Certificate	EN12966-1:2005+A1: 2009
Type of sign	Vehicle Activated Signs consist of a pre-defined pictogram or foil message, e.g. "Bad bend right ahead", using yellow or white LED's for predefined text and red LED's for warning roundels or triangles'.
LED	LEDs with high luminous intensity and long life expectancy.
Maintenance	The hardware is designed so that each part can be easily removed and replaced.
Brightness control	Brightness could be: a) Automatically adjustable using an external light sensor. b) Automatically adjustable using a day time precise algorithm. The precise daytime brightness algorithm depends on the geographical location of the sign, taking into account daytime changes throughout the year. c) Pre-adjusted or set from the system.
Temperature monitoring	The VAS is equipped with sensors to continuously measure the temperature inside the cabinet. The temperature monitoring and control system provides the optimal working temperature and prevents condensation or component overheating. The system also protects the LEDs from temperature peaks during the sign operation.
Internal time	The VAS has a real time clock with 2ppm precision.
Operation logs	The logging system provides information about the VAS working conditions. Logs are stored in the VAS internal memory e.g. VAS reset, maximum and minimum temperature, cooling and heating system activation, messages displayed, malfunctions e.g. LED errors individual LEDs, each colour, light sensor, overheating, or communication errors. The precise time each log event happens is recorded in the VAS memory. The logs in the VAS memory could be used for maintenance, troubleshooting, statistic analysing and system improvements.
Interfaces	RS232, Bluetooth, GPRS, Wi-Fi
Power supply	12V DC 230v AC

MECHANICAL FEATURES	
Material	Aluminium AlMg3, powder coated
Housing colour	Grey, RAL 9007
Front colour	Black, RAL 9005
Physical performance	T1, T2, T3 / P3 in accordance with EN12966
Resistance to pollution	D3 in accordance with EN12966
Opening	Front opening

OPTICAL FEATURES	
Optical performance in accordance with EN12966	Luminous intensity: class L3 / L3(*) / L3(T) Contrast ratio: class R3 Beam width: class B3 Colour: class C2
LED protection	UV resistant lenses for each LED.
LED currents	Less than 20% of the nominated current for each colour, providing long-life LEDs. Constant current LED drivers ensure stable luminance even with fluctuating supply voltages.

DISPLAY FEATURES	
Pictogram	Pictograms meet TSRGD
Pictogram dimensions	To TSRGD
Pre-defined text height	To TSRGD

Disclaimer: All Information contained in this Technical Specification is up-to-date and correct at the date of issue. E&OE. Issue no: 2 - 21.3.22

Speak to our experts, contact us today on **0141 255 0840**

t 0141 255 0840 e info@coeval.uk.com

coeval.uk.com  



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