

# Speed Camera Report – Cllr Lesley Evans

## Background

To explore the costs and timescales associated with the installation of a solar powered moveable radar speed sign. Note, these quotes are for 1 sign moved between 4 installation points. These 4 points have not yet been determined, and would be a next step if the decision to proceed were made.

## Section A: Permits

### Permit fees associated with digging

Fee (20 day turnaround)

- £245 per street in an unclassified street and not in a pedestrianised zone
- £355 per street in a classified street (A, B, C) or in a pedestrianised zone.
- Plus £171 for each additional 200m length of road.

Fast track application (5 day turnaround)

- Additional charge of £55 for this service.

Cancellation

A refund minus a fee of £84 per permit is given if a permit is fully processed but works are cancelled before they were due to start (must be cancelled the working day before the proposed start date). No refund is payable if the permit is cancelled after the proposed works start date and inspections have been scheduled.

### Permit fee associated with maintenance on public highway (Section 50)

- £367, lead time on application 15 working days
- Fast track available for 5 working days at additional cost of £52
- Costs associated with complaints made against apparatus installed £82 per visit

Section A summary: The permit costs are therefore  $£245 * 4 + £367 = £1347$

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## Section B: Sign installation

### Sign installation (NRSWA approved installer of signs) (one company approached)

- £800 plus VAT (Verbal quote, company declined to provide written quote due to workload)
- £50 plus VAT camera movement, per move. Recommendation to move camera every 3 months.

### Posts (one company approached)

£133 plus VAT each

Therefore 4 posts would cost £532 + VAT

### Sockets (one company approached)

£55 plus VAT each

This is for a 100mm x 100mm x 600mm Socket complete with a lockable top that can also be locked to the Post.

Sprayed in Cold Galvanised Spray

Delivered to Tutbury (£10.00)

Therefore 4 sockets plus Delivery is £230.00 plus VAT

Note: There is price variability each month due to raw material prices

**The installation costs are therefore £800 + £532 + £230 + VAT = £1874**

## Section C: The radar speed sign

Company A: £1969 + VAT (Solar powered variant) [Recommended by Uttoxeter]

Company B: £3017.50 + VAT (Solar powered variant) [Not recommended by Anslow]

For further details on the supplied equipment please see appendices below

**Recommendation to Cllrs that we use Company A £1969 + VAT = £2362.80**

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## **Cllr Recommendation**

Proceed as outlined in the background utilising the quotes provided for permits (Part A), installation costs (Part B) and the radar speed sign (Part C, Company A)

Total costs:

Part A (Permits)	£1347
Part B (Installation)	£1874
Part C (The radar speed sign)	£2362.80

Total: £5583.80

Draft Resolution for consideration: To put aside £6000 (incl contingency) from the budget to pay for the installation as outlined in the report, and to proceed with identification of sign positions.

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## Appendix A: Radar Speed sign details, Company A

The pricing structure (as of 1 Feb 2021) is on the very last page; you'll see that the MAINS pack is priced at **£1510**, the STREET LIGHT pack at **£1579** with the SOLAR pack at **£1969** (all prices in this mail & in the brochure include carriage but not VAT).

You'll also see descriptives pertaining to a number of other variants/hybrid/portable solutions priced below & I've also attached an information sheet as regards the panel that powers the SOLAR pack; **please pay attention to the text within that concerns the support pole diameter recommendations for Solar units.**

The choice of power source is worth taking time over. It can depend not only upon the strength & height of the support pole available to you but also the manner in which the device is to be used (STATIC v PORTABLE). Where PORTABLE use is imposed or indeed preferred please be aware that there is a BATTERY/MOBILE pack ; presented below in bold text.

**The BATTERY/MOBILE pack functions with 2 removable batteries, interchangeable with 2 spares with an external charger (all included in the pack). It is intended as the pack best adapted (but certainly not limited) to a device liable to be moved on a frequent basis. The battery/mobile pack is priced at £1917.17 and includes 1 Mounting Bar. Additional Mounting Bars cost £22.25 each so, as an example, a BATTERY/MOBILE device that is intended to move between 4 separate locations (i.e. 4 support posts, all equipped with mounting Bars) would cost £1983.92.**

- Please note that a BATTERY/MOBILE device is compatible with MAINS or STREET LIGHT use were such an eventuality ever to become possible for you at a later date. It is not compatible with a Solar Panel
- **If you suspect that you may wish to operate a BATTERY/MOBILE pack with a Solar Panel at a later date this is entirely feasible but note that there is a £31.64 surcharge and you would lose your future Mains/Street Lighting compatibility; The solar compatible BATTERY/MOBILE option is priced at £1948.81. This pack, apt for use at 4 locations (remember initially WITHOUT Solar Panel) would cost £2015.56**

Do note that a SOLAR pack (radar + solar panel) *can* be moved, it is not difficult BUT please be aware that the Solar Panel will almost certainly be situated at 12/13ft above ground level. An alternative solution that allows you to render portable a SOLAR pack without the need to move the Solar Panel, would be to pre-equip 2 posts, both with Solar Panels and simply move one Radar device between the 2 posts. Price £2271.60

To further confuse matters, do be aware that it is perfectly feasible to operate a device as a Solar device at one location and as a uniquely battery powered device at other locations. (You may well have 1 location that is subject to extremely heavy traffic flows ; where Solar would be a better adapted solution or indeed, you may have certain locations where your support post is inapt for solar use and where battery would best apply). A 2 location pack (Solar at 1, Battery at the other) would cost £2252.91. A 3 location pack (Solar at 1, battery at the other 2) would cost £2275.16. LESLEY, AFTER HAVING PLOUGHED YOUR WAY THROUGH ALL OF THIS TEXT, DO BEAR IN MIND THAT WERE YOU TO FOLLOW THE UTTOXETER 'GROUND SOCKET' SYSTEM THEN YOU CAN

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**DISPENSE WITH THE 'PORTABILITY' SOLUTIONS & PRICES AND CAN SIMPLY REFER TO A LIST PRICE OF £1969 (See top of mail) FOR A SOLAR DEVICE.**

Regardless as to the combination opted for, the only other hardware costs to provide for (assuming the device is to be fixed to a pre-existing support post ; we cannot supply this item ) would be the local purchase of 3 hose clamp/jubilee clip **per post used** (6 per post if using a Solar panel). These items will typically from £3-£5 per clip. In addition, the purchase of 1 padlock (6mm clasp) for each radar purchased would be a sensible precaution

There is a short video clip of the EVOLIS that may well be worthwhile looking at by clicking [HERE](#) . Please be reassured that, although the clip makes reference to kilometres per hour, the device that would be delivered to you would have a factory setting displayed & calibrated in mph.

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## Appendix B: Radar Speed sign details, Company B

### VARIO FEATURES

Full data logging

Able to run in stealth mode

Green and Red flashing

Flashes Vehicle Speed and many more displays including smileys and text such as THANK YOU SLOW DOW TOO FAST

Weighs 12kg

Easy mounting bracket

Easy to rotate around speeding hotspots

Bluetooth connection

ANDROID APP available for easy programming

Bright and clear display

You will need full permission to install from your council highways teams.

### MSID VARIO RADAR SPEED SIGN

HIGH SPECIFICATION, LOW COST, EASY TO INSTALL TECHNICAL SOLUTION TO TRAFFIC CALMING THAT WILL HELP YOU TO MEET ROAD SAFETY TARGETS AND MOST IMPORTANTLY IMPROVE THE SAFETY IN YOUR COMMUNITY.

Designed for areas where speed is an issue, recent studies prove that driver feedback signs are a cost effective means of reducing speed effectively and safely.

The MSID VARIO sign face uses high visibility 3M Diamond Grade reflective sheeting and the LED display technology feeds back to the drivers their accurate real time speed constantly measuring the speed of the vehicle as it passes through the VARIO sign radar.

The signs have a 2 stage warning display to educate and reward drivers as they reduce their speed and have the capability to display up to 250 individual bitmaps. Being able to programme the sign to your text, speed, and colour preference has its advantages over other units on the market that will only flash up speed.

The units can be set to operate at specific periods, for example rush hour times to help target vulnerable locations such as schools. This type of sign is ideal for use in conjunction within school zones as it reinforces the speed limit and alerts drivers to check their speed, by dropping the average driving speed by 1mph it reduces accidents by 5%.

The speed display can be capped to deter deliberate speeding, however speed data will still be captured at all speeds driven.

Lightweight and easy to install, the signs can be used for both portable and permanent solutions utilising the universal theft mounting system.

The MSID VARIO has a choice of multiple power options, such as solar, long life battery, trickle charge and mains supply, backed by a full 2 year guarantee the unit is supplied with a free

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comprehensive software package that offers multiple communication options such as blue tooth and GPRS remote monitoring of traffic volumes and speeds.

The sign also operates in convert mode by collecting traffic data without displaying any information providing the ability to create before and after case studies which can evaluate the level of speeding, the effectiveness the sign has had and will also support your investment decision.

All signs come with a full 2 year guarantee and are available on a 7-10 day lead time.

Note: the quote below is for two signs rather than one

Item Description	Quantity	Net Price	Net Value
10 SID Vario - Green / Red - SOLAR Configurable Speed Indication Device, Green and Red Customisable LED Matrix, 12V, Datalogging, Bluetooth Variant	2 Each	2,995.00	5,990.00 GBP
<b>Total Item Net Value</b>			<b>5,990.00 GBP</b>
<b>Freight Fee</b>			<b>45.00 GBP</b>
<b>VAT (%)</b>		<b>20.00 %</b>	<b>1,207.00 GBP</b>
<b>Total</b>			<b>7,242.00 GBP</b>
<b>Payment Terms:</b>	<b>0 days, End of month</b>		