

OTM speed management – approved radar speed checking equipment	Ref:	NR/L3/NSC/313/SP-3.01/AC
	Issue:	1
	Date:	05 December 2015
	Compliance date:	01 April 2016

1 Approved equipment

Radar speed checking of trains shall be carried out with the following radar speed meters which comply with UK Regulations:

- a) Muni Quip T3
- b) Muni Quip K-GP
- c) Kustom HR4
- d) Kustom HR8
- e) Kustom Roadrunner
- f) Kustom Falcon
- g) MPH K15
- h) Gastro Mini Radar Mk3
- i) Gastro Mini Radar Mk4
- j) Type UK15

2 Operation of hand held equipment

Equipment shall be operated from a position of safety.

Equipment shall be operated in accordance with the manufacturer's instructions.

The operating accuracy of the equipment shall be checked:

- a) before use; and
- b) after any infringements have been recorded.

3 Calibration checks

Hand held meters and associated gun tuning forks shall be calibrated on an annual basis. The check shall:

- a) state the manufacturer's name; and
- b) confirm that the agent who conducts the test shall be qualified and approved to conduct such tests.

A calibration certificate, which will be subject to audit, shall be maintained.

4 Operating and safety principles for hand-held equipment

4.1 Personal safety

NOTE Check the radar speed gun has a fully charged battery before going to site.

Persons undertaking radar speed checks shall:

- a) not direct the equipment's beam at anyone closer than two meters;
- b) check that anyone close to the operator stays behind the equipment, do not allow anyone to remain to the operator's side;
- c) if inside a vehicle, point the equipment centrally through the windscreen, do not move about whilst transmitting;

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- d) return any meter suspected of showing signs of deterioration in performance at normal or long range, or having suffered mechanical damage, to the suppliers or other competent body for a service and safety check; and
- e) always undertake speed checks from a position of safety as defined by the Rule Book.

4.2 Potential interference

Certain conditions can result in a slight loss of the distance range of radar speed recording equipment. Although the range over which speed checks can be carried out is reduced; these conditions do not affect the accuracy of the equipment. These conditions are:

- Rain, fog, snow or any humidity condition will cause the radar beam to be potentially absorbed by the atmosphere;
- Operating the equipment through the windscreen of a car, especially if the glass is tinted; and
- Moving tree branches.

4.3 Operating range of equipment

As a general principle, the operating range of speed recording equipment, unless specially modified for a lower speed, is between 6 mph to 140 mph.

The accuracy of the equipment is subject to the number of digits displayed. For a 3 digit read-out, this is ± 0.5 mph or kph

If speed checks are required for low speed operation, the radar equipment to be used shall be modified accordingly.