

First edition

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Road speed measuring systems
Part 0: General requirements



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National Foreword

This Mauritian Standard (MS 178-0:2012) was drawn up by the by the Mauritius Standards Bureau on the recommendation of the Metrology Standards Committee through its Subcommittee on Radar Equipment. It was approved by the Standards Council on March 2012 and was notified in the Government Gazette on 28 April 2012.

This Mauritian Standard is adapted from the South African Standard SANS 1795-0:2007 and was implemented with the permission of the South African Bureau of Standards.

Acknowledgement is made for the use of information from the above publication.

MS 178 consists of the following parts, under the general title *Road speed measuring systems*:

Part 0: General requirements.

Part 1: Laser speed measuring equipment.

Part 2: Radar speed measuring equipment.

Part 3: Distance-over-time speed measuring equipment (fixed distance/variable time).

Part 4: Distance-over-time speed measuring equipment (variable distance/variable time).

Part 5: Data capturing and recording devices for measuring speed of vehicles.

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Road speed measuring systems

Part 0: General requirements

1 Scope

This part of MS 178 specifies mechanical, electrical and operational requirements for speed measuring equipment and associated speed measuring systems that are intended for measuring the speed of road vehicles.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of MS 178. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of that standard, parties to agreements based on this part of MS 178 are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below.

- IEC 60068-2-29, *Basic environmental testing procedures – Part 2: Tests – Test Eb and guidance: Bump.*
- IEC 60068-2-64, *Environmental testing – Part 2: Test methods – Test Fh: Vibration, broad-band random (digital control) and guidance.*
- IEC 61000-4-1, *Electromagnetic compatibility (EMC) – Part 4-1: Testing and measurement techniques – Overview of IEC 61000-4 series.*
- IEC 61000-4-2, *Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test.*
- IEC 61000-4-3, *Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test.*
- IEC 61000-4-4, *Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test.*
- IEC 61000-4-5, *Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test.*
- IEC 61010-1, *Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements.*
- CISPR 11, *Industrial, scientific and medical (ISM) radio-frequency equipment – Electromagnetic disturbance characteristics – Limits and methods of measurement.*
- MS 178-1, *Road speed measuring systems – Part 1: Laser speed measuring equipment.*
- MS 178-2, *Road speed measuring systems – Part 2: Radar speed measuring equipment.*
- MS 178-3, *Road speed measuring systems – Part 3: Distance-over-time speed measuring equipment (fixed distance/variable time).*
- MS 178-4, *Road speed measuring systems – Part 4: Distance-over-time speed measuring equipment (variable distance/variable time).*
- MS 178-5, *Road speed measuring systems – Part 5: Data capturing and recording devices for measuring speed of vehicles*