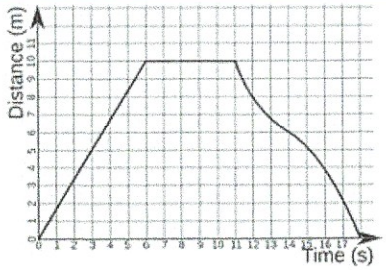


# MRA Digital

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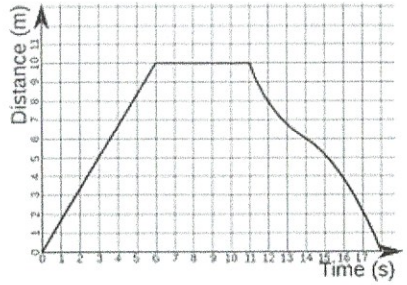
# Certificate of Calibration




| Manufacturer: Vitronic, GmbH | Model: PoliScan$^{Speed}$ FM1 | Unit Serial Number: PS-775299 |
|---|---|---|

This speed measuring device has been tested and verified to be functioning in accordance with the manufacturer's specifications. Testing was performed using equipment traceable to the Office of Legal Metrology of the German State of Hessen.

The calibration testing and verification procedure includes:

a) Verification of the LIDAR and camera sensor devices by use of a calibrated test stand. The horizontal and vertical beam aperture of the LIDAR as well as beam alignment and signal to noise ratio is verified. The alignment of the optical axis of the cameras with respect to the LIDAR sensor is also verified;
b) Verify the low-voltage monitoring and correction function (suspends measuring process between 9.5V and 10.5V);
c) Verify the accuracy of point distance measurements (max. 0.3000m at a distance of 20m) on a test stand;
d) Verify the accuracy of the internal time base using a calibrated stop watch (max. deviation 0.3%, e.g. 5.4 seconds per 30 minutes).

The device meets all requirements and tolerances specified in the manufacturer's technical directives for calibration checking. The calibration check was performed under the direction of **Heinz Stubblefield**, who has been certified to calibrate Vitronic PoliScan$^{Speed}$ devices.

Signed, Heinz Stubblefield
(FCC License Number 0021-1344-99)

**Date:** December 14, 2018

**Certification Expiration:** December 13, 2019 [1]

**[1] The validity of the calibration expires immediately if any official seals of the calibration on the device are broken or any mechanical, electrical or software modifications are made after this calibration.**