MERILNI SISTEMI d.o.o.
Cesta Ljubljanske Brigade 23a,
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KALIBRATIECERTIFICAAT / CERTIFICATE OF CALIBRATION

Certificaat nr./ Certificate No: IMS-107-24

MAATSTAF/ MEASURE:

Tachometer / Tachometer:	AVL Tachometer	No: 11067
Datum van ontvangst / Date of receipt:	2024-06-04	
Certificaat nr. / Certificate No:	IMS-107-24	

CLIËNT / CLIENT:

Politie Midden Nederland TTV
Kroonstraat 25
3511 RC Utrecht
Netherlands

Ordernummer / Order No: 00234

OMGEVINGSOMSTANDIGHEDEN/ ENVIROMENTAL CONDITIONS:

Priprava / Voorconditionering:	6 hours at 23 °C		
	Temperature	23.0 °C	± 3°C
	Pressure	101.3 kPa	± 3 kPa
	Humidity	50.0 %RH	± 20 %RH

KALIBRATIE METHODE / CALIBRATION METHOD:

De kalibratie werd uitgevoerd volgens de specificaties van de fabrikant en de werkingsvereisten.
Calibration was performed according manufacturer's specification and operation requirements.

RESULTAAT / RESULTS:

Resultaten met onzekerheid worden vermeld vanaf pagina 2./ Results with uncertainty are stated from the page 2 onward.

Datum van kalibratie / Date of Calibration: 2024-06-06

Uitgifte certificaat / Certificate issued: 2024-06-06

Franc Celestina
Calibration Technician

CALIBRATION LABORATORY IMS MERILNI SISTEMI d.o.o.

Digitally Signed By:Franc Celestina
Date:06.06.2024

Luka Dolenc
Approved signatory

Digitally Signed By:Luka Dolenc
Date:06.06.2024

Reproduction of the complete certificate is allowed. Parts of the certificate may only be reproduced with approval of the Calibration Laboratory

Summary

Visual inspection	**Passed**
RPM Mesured with AVL Probe attached	**Passed**

Het oordeel "Passed/Failed" houdt geen rekening met de kalibratie-onzekerheid; daarom is dit certificaat geen conformiteitsverklaring. "Passed" betekent alleen dat de gemeten waarde binnen de op het certificaat vermelde limieten valt.
The verdict "Passed/Failed" does not take the calibration uncertainty into consideration; therefore this certificate is not a conformance statement. "Passed" only means that the measured value is within the limits stated on the certificate .

Onzekerheid / *Uncertainty*
De gerapporteerde uitgebreide meetonzekerheid wordt uitgedrukt als de standaard meetonzekerheid vermenigvuldigd met dekkingsfactor k=2, wat voor een normale verdeling overeenkomt met een dekkingskans van ongeveer 95 %. De standaard meetonzekerheid is bepaald in overeenstemming met EA-publicatie EA-4/02 M:2013.
The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95 %. The standard uncertainty of measurement has been determined in accordance with EA Publication EA-4/ 02 M:2013.

De vermelde meetresultaten en onzekerheden hebben alleen betrekking op de gemeten waarde op het moment van meting en hebben geen gevolgen voor de stabiliteit op lange termijn.
The measurement results and uncertainties quoted refer only to the measured value at the time of measurement and carry no implication regarding the long term stability.

Plaats van kalibratie */Place of Calibration:*
IMS Merilni Sistemi d.o.o., Cesta Ljubljanske brigade 23a, Ljubljana.

Instruments

Category:	Type:	Manufacturer:	Serial No.:
Voltmeter	DMM34970A	Agilent	MY44025017
Burst Generator	AFG 3102	Tektronix	C010417

Visual inspection

The unit is visually inspected to check the suitability for calibration.

	Result
Visual inspection	OK

RPM Mesured with AVL Probe attached

RPM Mesured with Tachometer

	Expected [RPM]	Measured [RPM]	Accept - Limit [RPM]	Accept + Limit [RPM]	Deviation [RPM]	Uncertainty [RPM]
1897.368 RPM	1897.37	1895.0	-19.0	19.0	-2.4	0.25
2128.878 RPM	2128.88	2142.0	-21.3	21.3	13.1	0.25
2388.642 RPM	2388.64	2380.0	-23.9	23.9	-8.6	0.25
2680.104 RPM	2680.10	2675.0	-26.8	26.8	-5.1	0.25
3007.122 RPM	3007.12	3000.0	-30.1	30.1	-7.1	0.25
3374.046 RPM	3374.05	3404.0	-33.7	33.7	29.9	0.25
3785.742 RPM	3785.74	3750.0	-37.9	37.9	-35.7	0.25
4247.676 RPM	4247.68	4278.0	-42.5	42.5	30.3	0.25
4765.968 RPM	4765.97	4795.0	-47.7	47.7	29.0	0.25
5347.506 RPM	5347.51	5352.0	-53.5	53.5	4.5	0.25

No Disclaimer