GT AERO SPACE | STAHLWILLE

Form No : GTA-LMSP-02-01

977
9 Jun 2023

Declaration of Conformance

Serial-Number	DCF 05/00	**Customer**	Pasukan Gerakan Udara Polis Diraja Malaysia Cawangan Semenanjung No tel: +6012 236 3580
Ident-Number			
Manufacturer	PROTO		
Catalog-Number	6014F	**Humidity**	58.1 %
Tool range	50-250ft lb	**Temperature [°C]**	24.6°C
Tool	Torque tool	**Calibrating device**	7791
Type / Class	Type II setting, Class A	**Software**	Torkmaster 3.2.1.0
Deviation	6.0 %		
Adaption		**Test method**	DIN EN ISO 6789-1:2017
Extension interchangeable element	0.0mm	**Next calibration**	7 Jun 2024 Remark: The users should be aware there are many factors that may cause this instrument to drift out of calibration limits prior to the stated recalibration date.
Extension handle			
Reference Transducer	Stahlwille 7723,7.38-fl11ft lb, 507422145, Nr :20190, 29 Jun 2024		
Max. measurement error	1.00 %	**Rel. measurement uncertainty interval**	1.00 %

Measurment values

Target values	50 ft lb	Tmin		150 ft lb	60.00 %		250 ft lb	100.00 %
Scale readings	50 ft lb	Tmin		150 ft lb	60.00 %		250 ft lb	100.00 %
	Ref. Val.	**Error**		**Ref. Val.**	**Error**		**Ref. Val.**	**Error**	
	ft lb	ft lb	%	ft lb	ft lb	%	ft lb	ft lb	%
Clockwise torque	50.868	0.868	1.74	144.34	-5.656	-3.77	237.51	-12.494	-5.00
	50.525	0.525	1.05	144.53	-5.469	-3.65	236.44	-13.560	-5.42
	50.409	0.409	0.82	144.13	-5.867	-3.91	236.02	-13.985	-5.59
	50.274	0.274	0.55	144.38	-5.622	-3.75	235.57	-14.427	-5.77
	50.100	0.100	0.20	144.20	-5.803	-3.87	234.85	-15.147	-6.06
Average $\bar{X}_r$	50.435			144.32			236.08		
Anticlockwise torque	-53.924	-3.924	7.85	-149.03	0.965	0.64	-243.53	6.466	2.59
	-53.557	-3.557	7.11	-148.32	1.679	-1.12	-243.33	6.672	2.67
	-53.383	-3.383	6.77	-148.42	1.582	-1.05	-242.94	7.062	2.82
	-53.273	-3.273	6.55	-148.48	1.516	-1.01	-242.53	7.472	2.99
	-53.360	-3.360	6.72	-148.52	1.476	-0.98	-242.51	7.494	3.00
Average $\bar{X}_l$	-53.498			-148.56			-242.97		

Calibration Result : The result as following page(s). The expanded uncertainties are based on an estimated confidence probability of Approximately at 95% and have a coverage factor of k=2 unless stated otherwise

Max. deviation [%] 7.85 % NOT OK

The measuring error of the torque measuring device is less than a quarter of the maximum permissible relative deviation of the torque tool. OK

Measurement date (Date of issue) 8 Jun 2023 16:58:07

Responsible person Yasvin

CT-2419

G7 AEROSPACE | STAHLWILLE

Form No : G7A-LMSP-02-01

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991 Declaration of Conformance

Serial-Number	1008045701	Customer	Pasukan Gerakan Udara Polis Diraja Malaysia Cawangan Semenanjung No tel: +6012 236 3580
Ident-Number			
Manufacturer	SNAP-ON	Humidity	58.1 %
Catalog-Number	QD1R50	Temperature [°C]	24.6°C
Tool range	10-50in·lb	Calibrating device	7791
Tool	Torque tool	Software	Torkmaster 5.2.1.0
Type / Class	Type II, setting, Class A		
Deviation	6.0 %	Test method	DIN EN ISO 6789-1:2017
Adaption		Next calibration	9 Jul 2024
Extension interchangeable element	0.0mm	Remark	The users should be aware there are many fact cause this instrument to drift out of calibration limits prior stated recalibration date
Extension handle			
Reference Transducer	Stahlwille 7722,17.7-885in·lb, 507372037, 20191, 29 Jun 2024 Stahlwille 7723,88.5-9,736in·lb, 507422145, Nr. 20190, 29 Jun 2024		
Max. measurement error	1.00 % 1.00 %	Rel. measurement uncertainty interval	1.00 % 1.00 %

Measurment values

Target values	20 in·lb	Tmin		30 in·lb	60.01 %		50 in·lb	100.00 %
Scale readings	20 in·lb	Tmin		30 in·lb	60.01 %		50 in·lb	100.00 %

	Ref. Val.	Error		Ref. Val.	Error		Ref. Val.	Error	
	in·lb	in·lb	%	in·lb	in·lb	%	in·lb	in·lb	%
Clockwise torque	19.560	-0.443	-2.21	30.473	0.469	1.56	51.193	1.195	2.39
	19.507	-0.496	-2.48	29.615	-0.389	-1.30	51.140	1.142	2.28
	19.481	-0.522	-2.61	29.615	-0.389	-1.30	51.069	1.071	2.14
	19.401	-0.602	-3.01	29.553	-0.451	-1.50	51.060	1.062	2.12
	19.330	-0.673	-3.36	29.588	-0.416	-1.39	51.069	1.071	2.14
Average $\bar{X}$	19.454			29.765			51.104		

Calibration Result : The result as following page(s). The expanded uncertainties are based on an estimated confidence probability of Approximately at 95% and have a coverage factor of k=2 unless stated otherwise.

Max. deviation [%] -3.36 % OK

The measuring error of the torque measuring device is less than a quarter of the maximum permissible relative deviation of the torque tool. OK

Measurement date (Date of Issue) 10 Jul 2023 16:56:05

Responsible person Yassin

G7 AEROSPACE SDN BHD (200901021223)
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SENDI MAHIR SDN. BHD. (199501003943 (333136-T))
NO. 6, 8, 10 & 12, JALAN KAPAR 27/89, MEGAH INDUSTRIAL PARK,
SEKSYEN 27, 40400 SHAH ALAM, SELANGOR DARUL EHSAN, MALAYSIA.
TEL: 03-5191 7388 FAX: 03-5191 0875
EMAIL: enquiry@sendimahir.com ; marketing@sendimahir.com Website: www.sendimahir.com

CERTIFICATE OF CALIBRATION

Certificate No. : SM23148259
Issued By : Sendi Mahir Sdn Bhd

Date of Issue : 26 Jul 2023

Customer : PASUKAN GERAKAN UDARA PDRM
JALAN LAPANGAN TERBANG SULTAN ABDUL AZIZ SHAH,
47200 SUBANG SELANGOR

Instrument : Digital Protractor
Manufacturer : SPi
Model/Type : Pro 360
Serial No : UUPST 1
Capacity : 0 – 360 ° (90° x 4)
Resolution : 0.1 degree
Condition Upon Receiving : Edge dented.
Condition Upon Returning : The instrument has been calibrated. The results are as follows.

Calibration Date : 26 Jul 2023
Recalibration Date Specified By Customer : 26 Jul 2024

Remark : The user should be aware that any numbers of factors may cause this instrument to drift out of calibration before the specified calibration interval has expired.

Calibration Environment Condition:

Temperature	: 20.1 to 20.2	°C
Relative Humidity	: 53 to 54	%rh

Calibration Method : Internal Calibration Procedure(s) ICPD39
Calibration Venue : This Instrument has been calibrated at Sendi Mahir Sdn Bhd
Measurement Uncertainty : The reported expanded measurement uncertainty is stated as the standard measurement uncertainty multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95% and have a coverage factor of k=2 unless stated otherwise.

Reference Standard(s) Used :

Reference Standard Name	Serial No	Certificate No	Due Date	Accreditation No	Traceability
ANGLE GAUGE BLOCK	D052	SM2311764)	08 Mar 2024	SAMM 082	NMIM(MY)

Calibrated By: Nurul Zuraiha

Approved Signatory: Kayalvili