



Calibration Certificate

1.1 General

Sensor number: 161101V
Sensor type: I-VANE
Description: Vane Torque; Vane Speed; Vane Position; Inclination X; Inclination Y
Part number: 2100061A
Certificate number: 161101V-4
Client: Insitutek Pty Ltd

1.2 Calibration equipment

calibrated

Keithley 4435939	14-dec-2023 (Fluke: SA01224234)	<0.01%
Keithley 0598010	07-feb-2024 (Fluke: SA01251117)	<0.01%
Reference Torque Transducer 100Nm 160230048	28-02-2024 (HBM: D-K-12029-01-00)	<=0.04%
Reference ACS-080-2-SC00-HE2-PM 10/23 6746824 -		0,2°

1.3 Standard FprEN 22476-9

1.4 Result

The sensor complies to the above standard

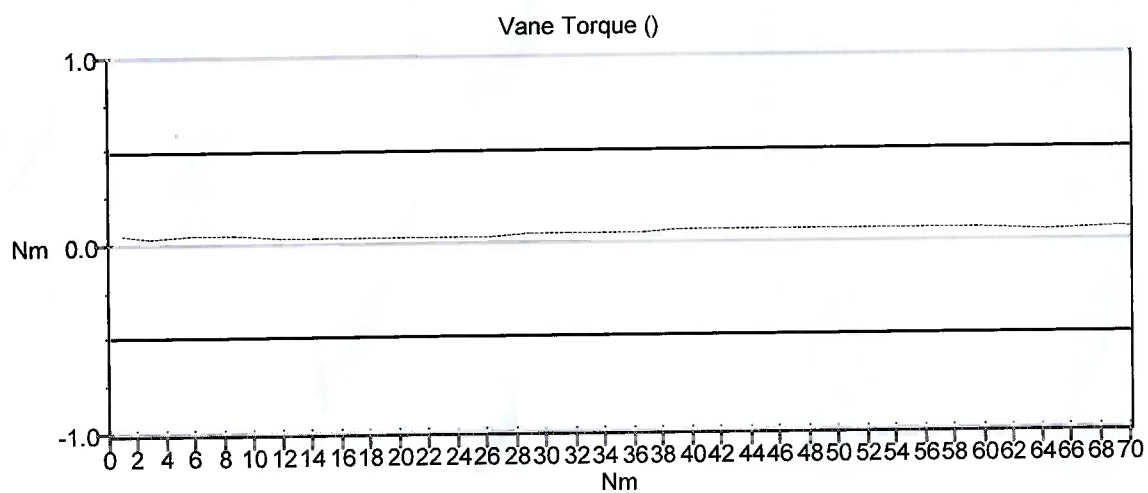
Calibrated by: S.C. Bouma
Date: 28/11/2024
Signature:

QA Manager: O. Storteboom
Date: 28/11/2024
Signature:



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----- Deviation

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Ref [Nm]	Torque [Nm]	Torque-Ref [Nm]
0.9	0.9	0.051
2.8	2.9	0.037
5.9	5.9	0.047
8.7	8.7	0.045
11.7	11.8	0.040
14.3	14.3	0.037
16.4	16.5	0.038
19.0	19.0	0.033
21.4	21.5	0.036
23.9	24.0	0.036
26.4	26.5	0.026
29.0	29.0	0.040
31.5	31.5	0.043
34.0	34.1	0.049
36.6	36.7	0.055
39.2	39.3	0.058
42.5	42.5	0.063
45.6	45.7	0.071
49.9	49.9	0.065
54.5	54.5	0.061
59.5	59.5	0.066
64.4	64.4	0.054
69.5	69.5	0.058
74.5	74.5	0.010



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Calibration Certificate

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A:	Vane Torque	
	Total max. uncertainty	0.5 Nm
	Nom.Vane Torque	70 Nm
	Max.Vane Torque	100 Nm
B:	Vane Speed	
	Total max. uncertainty	0.05 °/s
	Nom.Vane Speed	0.10 °/s
	Max.Vane Speed	6.00 °/s
C:	Inclination X	
	Total max. uncertainty	1.0°
	Nom.Inclination X	20°
	Max.Inclination X	25°
D:	Inclination Y	
	Total max. uncertainty	1.0°
	Nom.Inclination Y	20°
	Max.Inclination Y	25°
E:	Alpha factor	not applicable

Remarks:

This new calibration certificate replaces all previously issued certificates for this sensor.
This calibration certificate may only be copied and published in its entirety.