


CALIBRATION CERTIFICATE

Godrej & Boyce Mfg. Co. Ltd.,
Calibration Services, No.1, SIDCO
Industrial Estate,
Ambattur,, Chennai
Tamilnadu. 600098. India
Dir.:91-44-66544651/52/53

Format No. :FR-QT-21	Page No. :1 of 1	Issue Date :05/06/2023			
Certificate No. :C-230517-7-1	Recom. Due Date :05/06/2024				
Date Of Calibration :05/06/2023					
Customer Details : Glasmacher Electronic GmbH Sonnenborn 1 Balve Notzingen, Baden-Württemberg, Germany 58802	Calibrated at : Lab (-) Challan Date : 10/05/2023 Date Of Receipt : 17/05/2023 Cond. On Receipt : Satisfactory Receipt No. : C-230517-7				
Details of Unit Under Calibration :					
Name : Speed Sensor	Range : 0.13 to 5.00 m/s				
Make : Glasmacher Electronic GmbH	Least Count : 0.01 m/s				
Sr. No. : 200423	Accuracy(±) : +/- 0.05 m/s				
Model No. : TGMmini	Operating Range : 0.20 m/s to 1.5 m/s				
Details Of Master Equipments					
Name	Make	Sr. No.	IDNO	Valid Upto	Traceability
Digital Caliper	Mitutoyo	1020891	QSC/D/42	02/08/2023	G&B chennai
DIGITAL TACHOMETER	MONARCH	1954829/1928679	QSC/M/75	21/10/2023	Hitech, Chennai
Work Instruction No.: WI-ME-01 & WI-ME-06			Reference Standard No.: SANAS TR 45-02		
Environmental Details:					
Temperature: 21.0 °C			Relative Humidity: 55 %RH		
Calibration Result Group :- MECHANICAL DISCIPLINE - Acceleration, & Speed					
Sr. No.	Set POint (RPM)	Expected Standard Reading	Observed Test Reading	Error	Expanded Uncertainty
		m/s	m/s	m/s	m/s
1	26.7	0.20	0.19	0.01	±0.011
2	53.3	0.40	0.39	0.01	±0.012
3	80.0	0.60	0.60	0.00	±0.012
4	108.0	0.81	0.80	0.01	±0.011
5	133.3	1.00	0.99	0.01	±0.006
6	160.0	1.20	1.19	0.01	±0.011
7	200.0	1.50	1.50	0.00	±0.012
Remark					
1. Readings given were the average of 3 Measurements; 2. Radius Of the Disc (center to Sharp Edge) 71.63 mm; 3. Circumference of the Disc 0.450m. (60 RPM = 0.45m/sec);4.Distance Between Disc Edge from Sensor 3 mm.					
Notes					
<ul style="list-style-type: none"> •Equipment used for calibration were calibrated & traceable to National & International Standards. •This certificate refers only to particular item(s) submitted for calibration. •Godrej Calibration Services is not liable for any change in calibration data & performance specification on account of malfunctioning of Standards/instruments/Equipment covered by this certificate due to damage caused to it after issuance of this certificate. •The calibration results reported are valid at the time of and under the stated conditions of the measurements. •The Certificate should not be reproduced except in full without the prior permission from Godrej Calibration Service. •Satisfactory calibration report in no ways implies that the equipment calibrated is approved by NABL. •All precautions have been taken for any error or omission while calibrating the instruments and issuing this certificate. However Godrej Calibration Services shall not be liable for any loss or liability that may be arise to any party in this regards. 					
*The reported expanded uncertainty of measurement is calculated at approximately 95.45% confidence level with coverage factor k = 2.					
Technical Image					
					
Authorized Signatory :P Muthukumar Designation : Senior Manager Calibrated By:Krishnan.T Calibration Engg			 ----- En -----		



Godrej & Boyce Mfg. Co. Ltd.

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Signature is not required as it is generated through software