SAMM 088

CERTIFICATE OF CALIBRATION

DATE OF ISSUE: 08 December 2021 **CERTIFICATE NUMBER:** SST/SA/R/2021L/723

ISSUED BY : **SIRIM Standards Technology Sdn. Bhd.**
(Co. No.: 292201-P)
Lot 12, 18 & 20, Jalan Beremban 15/12, Seksyen 15,
40200 Shah Alam
Selangor Darul Ehsan,
Tel. : 03-55109066 Fax.: 03-55109077

APPROVED SIGNATORIES
Mohd Hashim Bin Effandi

Submitted by : Yjack Technology Sdn Bhd
20,Jalan PP 11/5
Alam Perdana Industrial Park
47130 Puchong Selangor
Attn: Mr. Woo Chuen Voon

Job No. : SA2021-5959-8
Date Received: 16/11/2021

Instrument : Displacement Tranducer
Manufacturer : RSI

Model No. : PM-52L
Serial No. : 21980

Instrument Condition When Received:
Physically in good condition

Instrument Condition When Returned:
1. Calibrated and Test Serviceable
2. Calibration Due Date requested by customer
3. The user should be aware that there are a number of factors that may caused this instrument to drift out of calibration before the specified calibration interval has expired.

Environmental Condition :-
Average Temperature : (20 ± 1)°C Average Relative Humidity: (58 ± 1)%
Calibration Date : 08 December 2021 **Request Cal. Due Date :** 08 December 2022

Calibration Method :
This equipment was calibrated using the calibration Procedures No. MSD/0010 Rev. 5.0

Standard(s) Used:

Instrument Type:	Serial No. :	Cal. Due Date :	Cal. Cert. No.	Traceability :
Standard Gauge Block	183102	05/08/2022	SST/SA/IR/2021H/1	NMIM

The standard instruments used in this calibration are traceable to either the National Standards maintained at the National Metrology Institute of Malaysia or other recognised International Standard Laboratories

Calibration Sticker No. : SA-12-723

Measurement Uncertainty : ± 0.006 mm
The uncertainty calculation is based on the ISO Guide to the Expression of Uncertainty in Measurement.

Coverage factor: k=2

Approved Signatories
Mohd Hashim Bin Effandi

The uncertainties are for a confidence probability of approximately 95%

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CERTIFICATE OF CALIBRATION

DATE OF ISSUE: 08 December 2021 **CERTIFICATE NUMBER:** SST/SA/R/2021L/723

Instrument : Displacement Tranducer **Serial No.** : 21980

CALIBRATION RESULTS

Applied Value (mm)	Display Value (mm)	Tolerance (mm)
0.0	0.00	N/A
5.0	-5.04	N/A
10.0	-10.07	N/A
15.0	-14.96	N/A
20.0	-19.87	N/A
25.0	-24.94	N/A
30.0	-29.96	N/A
35.0	-34.89	N/A
40.0	-39.88	N/A
45.0	-45.87	N/A
50.0	-50.06	N/A

Note : Tolerance reference (s) : Not provided by user

Calibrated by:

Mohd Amri Abd Aziz

The uncertainties are for a confidence probability of approximately 95%

SAMM 088

CERTIFICATE OF CALIBRATION

DATE OF ISSUE : 02 December 2021 **CERTIFICATE NO :** SST/SA/R/2021L/121

ISSUED BY : SIRIM Standards Technology Sdn. Bhd.
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Tel:+603 5510 9066 Fax:+603 5510 9077

APPROVED SIGNATORIES

Noor Azam Bin Ismail

Submitted by : Yjack Technology Sdn Bhd
20,Jalan PP 11/5
Alam Perdana Industrial Park
47130 Puchong Selangor
Attn:Mr. Woo Chuen Voon

Job No. : SA2021-5959-13
Date Received : 16/11/2021

Instrument : Pressure Transducer
Manufacturer : RSI

Model No. : PT124B-210-M20
Serial No. : H200612030

Instrument Condition When Received :
Physically in good condition

Instrument Condition When Returned :
1.Calibrated and test serviceable
2.Calibration due date requested by customer
3.The user should be aware that there are a number of factors that may caused this instrument to drift out of calibration before the specified calibration interval has expired.

Environmental Condition:-
Average Temperature : (22 ± 1) °C
Average Relative Humidity : (56 ± 1) %
Calibration Date : 02 December 2021
Requested Cal.Due Date : 02 December 2022

Calibration Method :
This instrument was calibrated using the calibration procedures No. MSP/0011 Rev. 11.0

Calibration Standard(s) Used :

Instrument Type :	Serial No. :	Cal. Due Date :	Cal. Cert. No.:	Traceability :
Dead Weight Tester	25950/480	05/02/2022	SST/SA/IR/2020B/2	NMIM

The standard instruments used in this calibration are traceable to either the National Standards maintained at the National Metrology Institute of Malaysia or other recognised International Standard Laboratories

Calibration Sticker No.: SA-12-121
Measurement Uncertainty : ± 0.01 MPa
The uncertainty calculation is based on the ISO guide to the expression of uncertainty in measurement.
Coverage Factor, *k=2*

Approved Signatory
Noor Azam Bin Ismail

The uncertainties are for a confidence probability of approximately 95%

SIRIM SST

SAMM 088

CERTIFICATE OF CALIBRATION

DATE OF ISSUE: 02 December 2021 **CERTIFICATE NUMBER:** SST/SA/R/2021L/121

Instrument : Pressure Transducer **Serial No.** : H200612030

CALIBRATION RESULTS

Range : 80 MPa **Graduation** : 0.01 MPa

Standard Applied (MPa)	Actual Equipment Reading (MPa)				
	Increase		Decrease		Limits
	Before Adjustment	After Adjustment	Before Adjustment	After Adjustment	
0.000	0.00	N/A	0.00	N/A	± 0.20
7.979	8.01	N/A	8.00	N/A	± 0.20
15.958	16.00	N/A	15.99	N/A	± 0.20
31.915	31.99	N/A	32.00	N/A	± 0.20
47.873	47.96	N/A	47.96	N/A	± 0.20
63.831	63.93	N/A	63.92	N/A	± 0.20
79.788	79.91	N/A	-	-	± 0.20

Note : *No adjustment carried out*
: *Limits as stated at Instrument*
: *Accuracy Class : 0.25 % FS*

Calibrated By :

Amirul Asyraf Bin Ibrahim

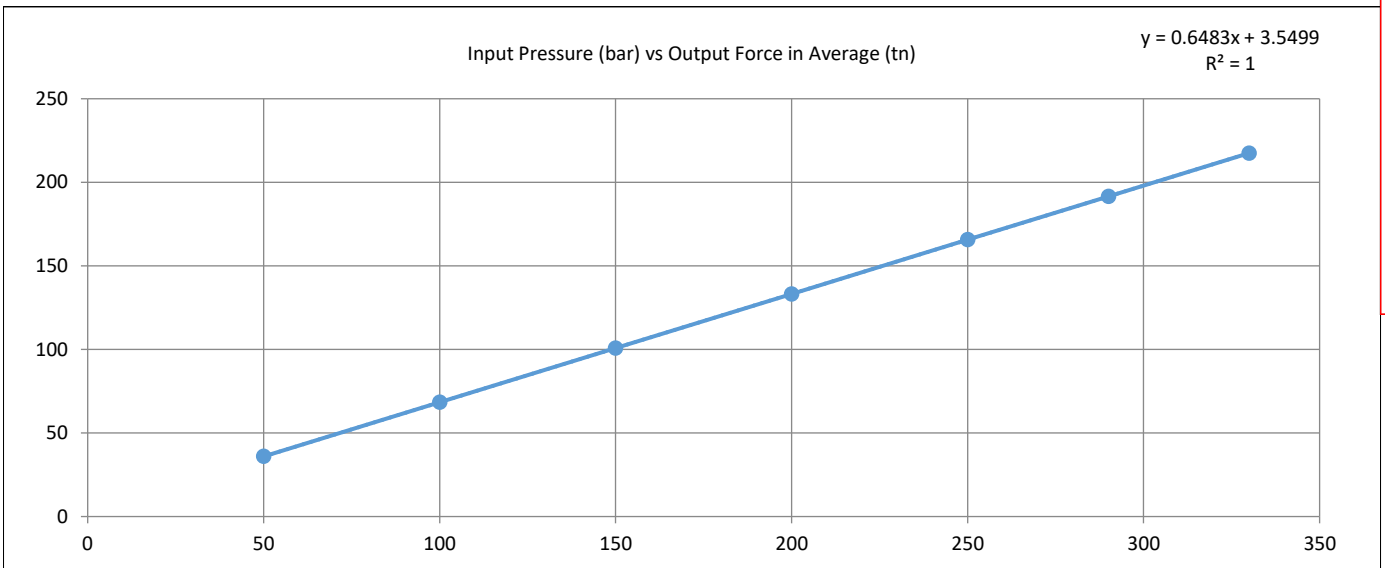
The uncertainties are for a confidence probability of approximately 95%

YJACK Technology Sdn Bhd (1086910-H)
20, Jalan PP11/5, Alam Perdana Industrial Park, 47130 Puchong, Selangor, Malaysia.
(TEL) +6016-2168129/2158129 (EM) YJACKpiletest@gmail.com

Calibration Certificate

Hydraulic System (Input Line)			Force System (Output Line)		
Calibration Date (yyyy/mm/dd)	2022/04/01		Calibration Code	ISO17025 (In-House)	
Jack Trademark	YCELL		Loadcell Trademark	Encardio	
Jack Model	5GYJ3D325		Loadcell Model	Solid Load Cell 1000T	
Jack Code	SAMPLE		Loadcell Code	6352	
Outer Diameter	325	mm	Outer Diameter	251	mm
Effective Area	65,700	mm²	Max Force, Fmax	1,000	tn
Max Pressure, Pmax	400	bar	Temperature	28	°C
Pressure Gauge	TD/192852D (analog)		Relative Humidity	82	%

Nomimal Pressure, Pn (bar)	50	100	150	200	250	290	330
Input Pressure, P1 (bar)	52	103	156	199	254	292	332
Output Force, F1 (tn)	35	69	102	130	165	191	220
y1 = 0.6544x + 0.5283, R2 = 0.9996	35	68	103	131	167	192	218
Input Pressure, P2 (bar)	57	104	157	203	256	294	332
Output Force, F2 (tn)	40	72	102	135	166	196	219
y2 = 0.6503x + 2.5131, R2 = 0.999	40	70	105	135	169	194	218
Input Pressure, P3 (bar)	49	103	153	202	253	290	331
Output Force, F3 (tn)	35	73	101	135	168	192	216
y3 = 0.6434x + 4.4471, R2 = 0.9995	36	71	103	134	167	191	217
Input Pressure, x (bar)	50	100	150	200	250	290	330
y1 = 0.6544x + 0.5283, R2 = 0.9996	33	66	99	131	164	190	216
y2 = 0.6503x + 2.5131, R2 = 0.999	35	68	100	133	165	191	217
y3 = 0.6434x + 4.4471, R2 = 0.9995	37	69	101	133	165	191	217
Output Force in Average, y (tn)	36	68	101	133	166	192	217



Hydraulic Jack Calibration Equation: Output Force (tn) = m * Input Pressure (bar) + c (values of m & c, refer the regression plot above)

Tested By: Sign/Name

Verified By: Sign/Name

Sample Calibration Certificates for Pressure
(calibration certificates will be re-submitted prior to commencement of the load test)