IP54 TEST REPORT

EN 60529:1991/A2:2013/AC:2019-02

Degrees of protection provided by enclosures (IPCED 国际互认 国际互认 MEASUREMENT AND TEST REPORTING For

Chengdu JRT Meter Technology Co., Ltd

1402,E2 New Century Global Center, Gaoxin District, Chengdu, China

MODEL: C40

2022-11-24

This Report Concerns: **Equipment Type:** Original Report Laser Distance Meter Enc Tow Test By: Eric Tao / Report Number: TH2211277-C02-R01 Test Date: 2022-11-18 to 2022-11-23 whe Hum Reviewed By: Prince Huang/ Zone Huone Approved By: Prince Huang/ Prepared By: Shenzhen Tian Hai Test Technology Co.,Ltd. 4F, A3 BLDG, The Silicon Valley Power Intelligent Terminal Industrial Park, Guan Lan Street, Longhua District, Shenzhen Tel: +86-755-86615100 Fax:+86-755-86615105

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen Tian Hai Test Technology Co.,Ltd.

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Test report

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Report

Report reference No. TH2211277-C02-R01

Tested by (+signature) Eric Tao

Reviewed by (+signature) Prince Huang

Approved by (+signature) Prince Huang

Date of issue 2022-11-24

Testing laboratory

Name Shenzhen Tian Hai Test Technology Co.,Ltd.

Address 4F, A3 BLDG, The Silicon Valley Power Intelligent Terminal

Industrial Park, Guan Lan Street, Longhua District, Shenzhen

Test location Same as above

Client

Name Chengdu JRT Meter Technology Co., Ltd

Address 1402,E2 New Century Global Center ,Gaoxin District,

Chengdu ,China

Description Laser Distance Meter

Model no. C40
Rating(s) DC 3.3V

Trade Mark: --

Manufacturer Chengdu JRT Meter Technology Co., Ltd

Address 1402,E2 New Century Global Center ,Gaoxin District,

Chengdu, China

Note - 5 --

Test specification

Standard EN 60529:1991/A2:2013/AC:2019-02

Level of protection IP54

Test result / IP54 Pass

Possible test case verdicts:

test object does meet the requirement...... P (Pass)

· test object does not meet the requirement...... F (Fail)

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EN 60529:1991/A2:2013/AC:2019-02 Clause Requirement – Test Result – Remark					
Clause	Requirement – Test	Result – Remark	Verdic		
10	Marking	The second second	Р		
. 8	model & & &	C40			
	specifications	A S			
	Product standards to mark method to make the		-		
ć	appropriate regulation	4			
THE	As part of the shell and the other part of the protection grade is not at the same time	THE WINTER	N. E.		
R	When installing position impact protection grade	The The	77.		
	Must explain the largest qinshui depth and time	7	<u>-</u>		
1.1	Test general requirements	5	Р		
11.1	Waterproof and dustproof test environmental conditions	24.6℃,64%,98kPa	Р		
11.2	sample	3 3	PS		
THE THE PARTY OF T	Test samples should be clean and new products, all the parts according to the manufacturer set in place	THE THE PERSON OF THE PERSON O	ŲΡ '		
_	Sample quantity	2	71/6		
L. S	Installation condition	Zi Li	7/1/		
R	Pre-processing method		1		
7.	When the test is charged or not	R	I		
	When test the moving parts work or not	No such appliance	< N/A		
11.3	Determine test requirements and test result		Р		
11.4	The first characteristic digital test condition	Test of 1.0 mm	Р		
Z	combination (see table 5)	diameter wire shall not			
T. R.	The state of the s	enter the shell.			
11.5	An empty shell	7,7	N/A		
12	The first characteristic Numbers represent to	6	Р		
5	close to the dangerous parts protection test	4	4		
12.1	Close to the dangerous parts protection test in		Ş P		
	test are shown in table 6	Z Z			
12.2	Test conditions (table 6).	7. 7.	Р		
12.3	Accept the conditions (see appendix A)	Z,Y	N/A		
12.3.1	For low voltage equipment (exchange does not exceed 1 kV, dc is not more than 1.5 kV)		N/A		
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F	EN 60529:1991/A2:2013/AC:20		1	
Clause	Requirement – Test	Result – Remark	Verdict	
12.3.2	For high voltage equipment (communication more than 1 kV, more than 1.5 kV dc)	N/A		
12.3.3	Danger of mechanical parts of equipment	The The	N/A	
13	The first feature indicated by the Numbers to prevent solid foreign body into the test	T. Y.	PA	
13.1	Test method (see table 7)	L L	Р	
13.2	The first characteristic digital test conditions	E R	P	
Z.V	0—Does not require the test	A N	N/A	
TR	1—No handle and the guard plate rigid ball diameter of 50 $^{+0.05}_{0}$ mm		N/A	
5,	2—Not the diameter of the handle and the guard plate rigid ball of 12.5 mm	The Last	N/A	
THE WAY	3—Edge burr of the rigid rod diameter of 2.5	The Tarket	N/A	
55	4—Edge burr of the rigid line 1.0 +0.05 mm in diameter	THE SECOND SECON	N/A	
MAKE	5—Figure 2 dust-proof box, with or without negative pressure	Will !	Р	
7	6—Figure 2 dust-proof box, and negative pressure		N/A	
13.3	The first characteristic digital accept conditions (1, 2, 3, 4)	Not through any openings	Р	
13.4	The first characteristic Numbers for dust test 5 and 6	Test in the test chamber after 20 times, shell has no obvious dust	PWH	
~		deposition.	5	
13.5	The first characteristic Numbers for special conditions of 5	The state of the s	P	
13.6	The first characteristic Numbers for special conditions of 6	T. W.	N/A	



EN 60529:1991/A2:2013/AC:2019-02				
Clause	Requirement – Test	Result – Remark	Verdic	
14	The second feature indicated by the Numbers to prevent water into the test		Р	
14.1	Test method (see table 8)	The The	Р	
~	0 - don't need to test	R	N/A	
Ó	1 - use figure 3 drops of water tank, the shell on the turntable		N/A	
TAN TO THE TANK THE THE TANK THE TANK THE TANK THE TANK THE TANK T	2 - use figure 3 drops of water tank, shell in four fixed location on tilt 15 DHS	SHA WANTER	N/A	
K 181	3 - using a tube is placed in figure 4, in the vertical direction or minus 60 DHS drench water, maximum distance of 200 mm or the use of figure 5 water spray nozzle, or minus 60 DHS pour water in vertical direction		N/A	
J.S	4 - the same number for the 3 test, Angle in the vertical direction or minus 180 DHS rain water	The State	PA	
T. R.	5 - use figure 6 nozzle, the nozzle diameter of 6.3 mm, from 2.5 m to 3 m	15	N/A	
45	6 - use figure 6 nozzle, the nozzle diameter of 12.5 mm, from 2.5 m to 3 m	The state of the s	N/A	
NA PARTY	7 - using the cofferdam, the water over the top at least 0.15 m, at the bottom of the shell at least 1 m under the water	TIRME T	N/A	
<	8 - use of cofferdam, the water height negotiated by the users and manufacturers		N/A	
14.2	Test condition	rinsing, 27.2℃	Р	
14.2.1	The second digit of 1 drop water tank experiment	The Tip	N/A	
14.2.2	The second digit of 2 rop water tank experiment	4	N/A	
14.2.3	The second number for 3 set tube or water spray nozzle test		N/A	
14.2.4	The second number for 4 set tube or water spray nozzle test	THE THE	P	
14.2.5	The second characteristic Numbers 5 for 6.3 mm nozzle test	L. R.	N/A	

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5	EN 60529:1991/A2:2013/AC:20	19-02			
Clause	Requirement – Test	Result – Remark	Verdict		
14.2.6	The second characteristic Numbers for 6 to 12.5 mm nozzle test		N/A		
14.2.7	The second characteristic Numbers for 7 to 0.15 m ~ 1 m short time diving trials				
14.2.8	The second characteristic Numbers for 8 continued diving test according to the agreement	To the second se	N/A		
N. A.	6 - use figure 6 nozzle, the nozzle diameter of 12.5 mm, from 2.5 m to 3 m	THE INTERPRETATION OF THE PARTY	N/A		
5	7 - using the cofferdam, the water over the top at least 0.15 m, at the bottom of the shell at least 1 m under the water	T SHE	N/A		
Y	8 - use of cofferdam, the water height negotiated by the users and manufacturers	A A	N/A		
14.3	Acceptable conditions	No ingress of water	P		
15 8	Additional letters represent close to the dangerous parts protection test				
15.1	Try (the) as stipulated in the table 6	5	N/A		
15.1	Test condition	37 24	N/A		
15.3	Acceptable conditions	The state of the s	N/A		

Test equipment:

A Instr.	Instrument	Range Used		Calibration Date	
Code	Туре	Or ***	Make and Model **	Last	Due
TH-SE-064	Dusttest chamber	IP5X, IP6X,	XIANGRUI/ XR-SC225	2022-03-12	2023-03-11
TH-SE-061	Pendulum rain test device	IPX3,IPX4	XIANGRUI/ XR-SC225	2022-03-12	2023-03-11



Appendix for Test Photos

IP6X test photos



IPX4 test photos





Appendix for EUT Photos











****END OF THE REPORT****

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