



वैद्युतिक मापन उपयंत्र अभिकल्प संस्थान, मुंबई
INSTITUTE FOR DESIGN OF ELECTRICAL
MEASURING INSTRUMENTS, MUMBAI
MSME TECHNOLOGY CENTRE



संदर्भ सं/ Ref. No.: WO/FFL/037/24-25

दिनांक:
Date : 09.10.2024

M/s. SPINK CONTROLS
Gala No. F4, A-Wing, Plot No: K3,
Udyog Bhavan Road, Additional MIDC,
Ambarnath - 421 506

Kind
Attn: Mr. Sanchit Raikar (Service Engineer)

विषय : परीक्षण रिपोर्ट
Sub : Test Report

महोदय,
Dear Sir,

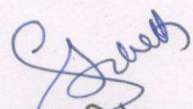
आपके उपकरणों / अवयवों पर किये हुये परीक्षण रिपोर्ट संख्या (TR/FFL/052/24-25) आपको जानकारी के लिए पत्र के साथ भेज रहे हैं। यदि आपको परीक्षित मदों पर स्पष्टीकरण की कोई आवश्यकता हो तो, कृपया परीक्षण रिपोर्ट जारी करने वाले प्राधिकारी को हमारे संदर्भ संख्या और तारीख का उल्लेख करते हुए, रिपोर्ट प्राप्त होने पर चार सप्ताह के अन्दर सम्पर्क करें अथवा लिखें। हम इस पत्र के साथ फीडबैक फॉर्म भेज रहे हैं। कृपया उसे भरके प्रधान निदेशक, आईडीईएमआई को भेजें।

Test Report No. (TR/FFL/052/24-25) of your instruments / Components / Equipment's are / is enclosed herewith for your information. If you need any clarification on Test Report, please write/contact to Test Report issuing officer quoting our reference number and date within four week the date of receipt of this report. We are also enclosing here with feedback form. Kindly fill up and send to the Principal Director of IDEMI.

धन्यवाद!
Thanking You,

भवदीय
Yours faithfully

संलग्न पत्रानुसार
Encl. As above


प्रधान निदेशक
PRINCIPAL DIRECTOR

Swatantryaveer Tatya Tope Marg, Chunabhatti, Sion P.O. Mumbai - 400022. (M.S)

Phone: (022) - 2405 0301/2/3/4 Fax : (022) - 2405 0016.

*Website : www.idemi.org *Email : etl@idemi.org



TEST REPORT



TC - 5538

Accreditation Field : Electrical Testing
Group : Environmental Test Facility
NABL Accreditation No.: TC-5538
Accreditation Valid Up to : 23.04.2026
Test Report No. : TR/FFL/052/24-25
ULR No : TC553824000000275F

Work Order No. : WO/FFL/037/24-25
Work Order Date : 08/10/2024
Date of Receipt : 08/10/2024
Date of Testing : 08/10/2024
Date of Issue: 09/10/2024
Page No. : 1 of 3

Test Item : VARIABLE AREA FLOWMETER ENCLOSURE

Tested for: M/s. SPINK CONTROLS

Gala No. F4, A-Wing, Plot No: K3,
Udyog Bhavan Road, Additional MIDC,,
Ambarnath - 421 506

Tested at : IDEMI MUMBAI

Specification of Items Under Test	Specification of Standards Used
Manufacturer : M/s. Spink Controls	1 KASCO Dust Chamber, Sr. No.015/08/91 along with Analog Vacuum Gauge, Make Fiebig, Model: MFOBP615994, Sr. No: 2112689516 calibration validity up to 06/03/2025
Condition of Item on Receipt: Good	2 Reservoir Tank
Model No: SC/R-400	Traceability: Standard used are traceable to National / International Standards
Sr. No.: SC/400/E68/1	
Drawing No.: SC/400/E68/1	
Size: ϕ 140.9 X 65.0mm.	

Ambient Condition :

Temperature : 29°C

Relative Humidity : 71%

Remarks: Please refer page 2 to 4 for Test Results.

1) Test Specification :

The above mentioned item is tested for IP-68 Test : IS/IEC 60529:A1:1989 + Ed.2.1 2001-02 + A2:2013 for enclosure of category - 1, OP-ETL-20.

This Test Report is valid only for Drawing No: SC/400/E68/1 & a copy of drawing is enclosed.

M.K. CHARATE
TECHNICAL MANAGER

AUTHORIZED SIGNATORY

Note:

- This Test Report refers only to the particular item(s), submitted for testing. The test report should not be reproduced except in full Without the prior permission from the Principal Director, IDEMI, Mumbai.
- This test report is digitally signed by authorized signatory approved by NABL.



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सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय, भारत सरकार

Ministry of Micro, Small & Medium Enterprises, Govt. of India.

स्वातंत्र्यवीर तात्या टोपे मार्ग, चुनाभट्टी, सायन डाकघर, मुंबई - ४०० ०२२

Swatantryaveer Tatyta Tope Marg, Chunabhatti, Sion, P.O. Mumbai - 400022



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FLUID FLOW LABORATORY	
Model No.: SC/R-400	ULR No.: TC553824000000275F
Sr. No.: SC/400/E68/1	Test Report No.: TR/FFL/052/24-25
Date of Testing : 08/10/2024	Page No.: 2 of 3

TEST REPORT

Test Result of: Variable Area Flowmeter Enclosure (IP-68)

1. Test for IP: 6X (Ingress of dust for enclosure of category I)

The Variable Area Flowmeter Enclosure was tested for dust ingress as per IS/IEC: 60529:A1:1989 + Ed.2.1 2001-02 + A2:2013. For enclosure of category-I (Test condition clause 13.4 + 13.6). The above mentioned Variable Area Flowmeter Enclosure was supported inside the dust chamber and pressure inside was maintained (-200mmWc) below the surrounding atmospheric pressure by a vacuum pump which was measured by Analog Vacuum Gauge. The test was carried for a 02 Hour.

Acceptance Condition

The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test

Observation: The Variable Area Flowmeter Enclosure Cap was opened and was inspected for dust entry. It was observed that there were no traces of dust entry inside the Variable Area Flowmeter Enclosure.

Result: Hence the Variable Area Flowmeter Enclosure Passed for IP 6X Test.

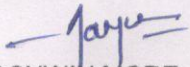
2. Test for IP X8 (Protection against Immersion)

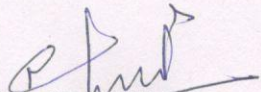
The Variable Area Flowmeter Enclosure was tested for Immersion of water as per IS/IEC: 60529:A1:1989 + Ed.2.1 2001-02 + A2:2013 (Clause 14.2.8) The above mentioned Variable Area Flowmeter Enclosure was immersed for 30 minutes in water reservoir in such a way that water level was maintained on Variable Area Flowmeter Enclosure as per the Standard Test.

Acceptance Condition:

If any water has entered it shall not:

- 1) Be sufficient to interfere with correct operation of equipment or impair safety.
- 2) Deposit on insulation parts where it could lead to tracking along the creepage distances.
- 3) Reach live parts or winding not designed to operate when wet.
- 4) Accumulate near the cable end or enter the cable if any.


ASHWIN MORE
LAB TECHNICIAN
TESTED BY


M.K. CHARATE
TECHNICAL MANAGER
CHECKED BY



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FLUID FLOW LABORATORY	
Model No.: SC/R-400	ULR No.: TC553824000000275F
Sr. No.: SC/400/E68/1	Test Report No.: TR/FFL/052/24-25
Date of Testing : 08/10/2024	Page No.: 3 of 3

If the enclosure is provided with drain holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment.

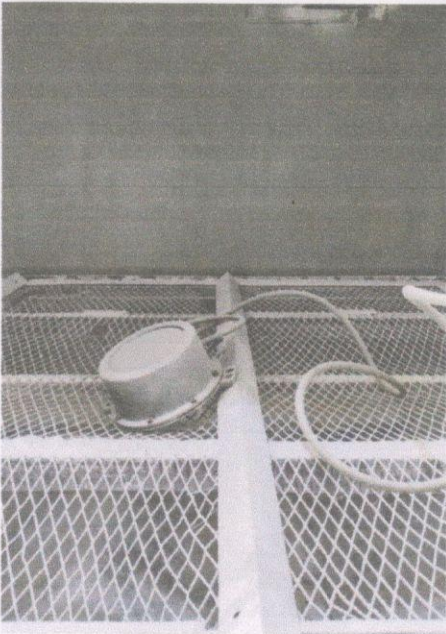
For enclosures without drain holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts.

Observation: The Variable Area Flowmeter Enclosure Cap was opened and was inspected for water entry. It was observed that there were no traces of water entry inside the Variable Area Flowmeter Enclosure.

Result: Hence the Variable Area Flowmeter Enclosure Pass for IP X8 Test.

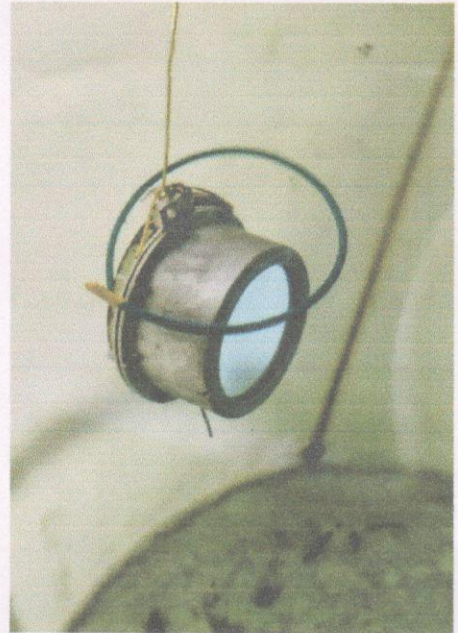
Sample Picture of Tested Product

Dust Ingress Protection Test



Ashwin More
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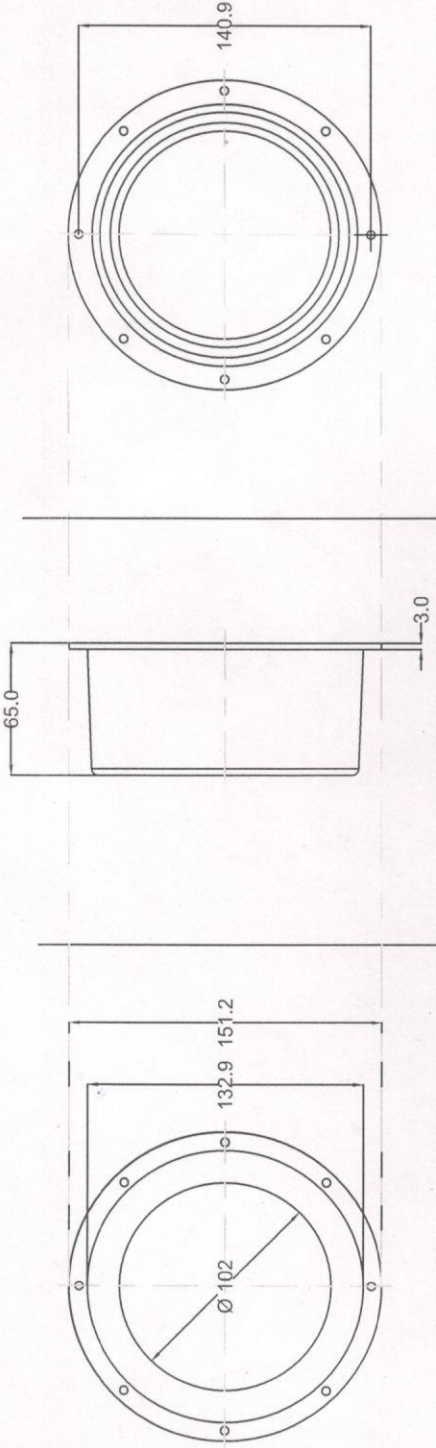
Protection against Water (Immersion)



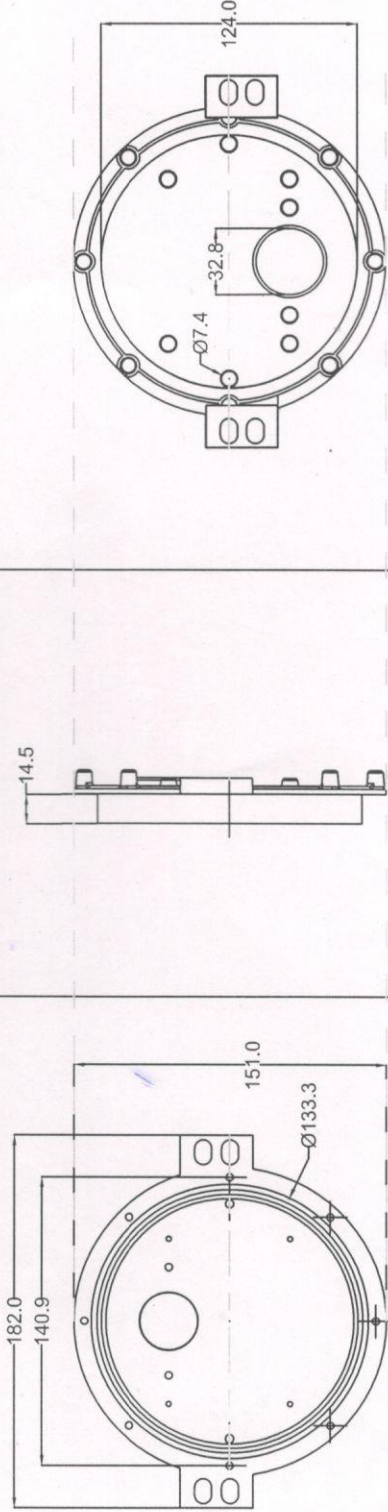
M.K. Charate
M.K. CHARATE
TECHNICAL MANAGER
CHECKED BY

END OF TEST REPORT

1. ENCLOSURE COVER



2. ENCLOSURE CAP



Bottom View

Side View

Top View

3-D View

SPINK CONTROLS, THANE

ITEM:		VARIABLE AREA FLOWMETER ENCLOSURE	
DWG	AVR	MODEL NO.-	SC/R - 400
CHKD	VDR	DRG. NO.-	SC/400/E68/1
DATE:		07/10/2024	
		SHEET 1 OF 1	

[Handwritten Signature]

INSTITUTE FOR DESIGN OF
ELECTRICAL MEASURING INSTRUMENTS
(GOVERNMENT OF INDIA SOCIETY)
Chhatrapati, Shivaji, P.O., Bombay-400 02