



MSME TECHNOLOGY CENTRE, MUMBAI
MINISTRY OF MICRO, SMALL AND MEDIUM ENTERPRISES
GOVERNMENT OF INDIA



TEST REPORT

IDEMI

प्रौद्योगिकी केंद्र, मुंबई

MSME- TECHNOLOGY CENTRE , MUMBAI

INSTITUTE FOR DESIGN OF ELECTRICAL MEASURING INSTRUMENTS MUMBAI

IDEMI-Eastern Express Highway, Opp. Everard Nagar Bus Stop, Chunabhatti, Sion, Mumbai - 400022
Tel- 022-24050301/2/3/4 Fax: 022-24050016, Mobile: 9372330934, E-mail- eti@idemi.org, Website- www.idemi.org



सत्यमेव जयते

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



संदर्भ सं / Ref. No.: WO/FFL/068/24-25

दिनांक : 28-02-2025
Date :

M/s. SPINK CONTROLS.
303, Siddharth towers, C.H.S.L,
G. P. Pai Road, Kopri, Thane (East)
THANE - 400 603.

Kind Attn : Mr. Vinayak Rangdal

विषय : परीक्षण रिपोर्ट

Sub : Test Report

महोदय,

आपके उपकरणों / अवयवों पर किये हुये परीक्षण रिपोर्ट संख्या (TR/FFL/099/24-25) 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 अंदर सम्पर्क करें अथवा लिखें। हम इस पत्र के साथ फीडबैक फॉर्म भेज रहे हैं। कृपया उसे भरके प्रधान निदेशक, वैमाउअसं मुंबई को भेजे।

Dear Sir,

Test Report No.(TR/FFL/099/24-25) of your instruments / components / Equipments 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 weeks from the date of receipt of this report. We are also enclosing here with the feedback form. Kindly fill up and send to the Principal Director of IDEMI Mumbai.

धन्यवाद !
Thanking You,

भवदीय
Yours Faithfully

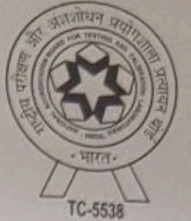
प्रधान निदेशक
PRINCIPAL DIRECTOR

संलग्न पत्रानुसार
Encl. As Above



सत्यमेव जयते

TEST REPORT



TC-5538

Accreditation Field : Electrical Testing
 Group : Environmental Test Facility
 NABL Accreditation No : TC -5538
 Accreditation Validity : 23/04/2026
 ULR : TC553824000000036F
 Work Order No. : WO/FFL/068/24-25
 Work Order Date : 20/02/2025
 Test Report No. : TR/FFL/099/24-25
 Date of Test : 20 & 28/02/2025
 Page 1 of 4

Tested Item : VARIABLE AREA FLOWMETER ENCLOSURE IP67.

Tested for : SPINK CONTROLS.
 303, Siddharth Towers, C.H.S.L,
 G. P. Pai Road, Kopri, Thane (E),
 THANE - 400 603.

Tested at : I.D.E.M.I MUMBAI

| Specification of Item Under Test | | Specification of Standards Used |
|----------------------------------|----------------------|--|
| Manufacturer | : Spink Controls | 1) KASCO Dust Chamber, Sr. No.015/08/91 along with Analog Vacuum Gauge, Make Fiebig, Model: MFOB615994, Sr. No: 2112689516 calibration validity up to 06/03/2025 2) Reservoir Tank Traceability : Standard used for testing are traceable National/International Standards through IDEMI Mumbai. |
| Condition of Item on receipt | : No Visible Damages | |
| Model Number | : R-300/D | |
| Serial Number | : SC/25/IP67a | |
| Drawing No. | : SC/25/IP67a | |
| Size | : 225 X 152 X 100mm | |

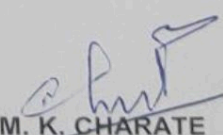
Ambient Condition:

Temperature - 26°C

Relative Humidity : 76%

Remarks :

- 1) Please refer page 2 of 4 & 3 of 4 for Test Results.
- 2) The above Mentioned item equipment / product is tested for IP67, protection against ingress of Dust & Water (Immersion) as per IS/IEC 60529:A1:1989 + A2:2013 for Enclosure of Category 2. OP - ETL -20.
- 3) This Test Report is valid only for the above mentioned equipment / product, Drg. No: SC/25/IP67a a copy of the Drawing is enclosed.


 Mr. M. K. CHARATE
 TECHNICAL MANAGER
 AUTHORISED SIGNATORY

Note : This test reports only to the particulars item(s), submitted for testing. The test reports should not be reproduced except in full without the prior permission from the Principal Director, IDEMI, Mumbai. This test report is signed by authorized signatory approved by NABL.



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सूक्ष्म, लघु और 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 - 400 022

FF-LAB-007



FLUID FLOW LABORATORY

| | |
|----------------------------------|-----------------------------------|
| Model No.: R-300/D | ULR No.: TC553824000000036F |
| Sr. No.: SC/25/IP67a | Test Report No.: TR/FFL/099/24-25 |
| Date of Testing: 20 & 28/02/2025 | Page No.: 2 of 4 |

TEST REPORT

Test Result of: Variable Area Flowmeter Enclosure IP67

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

The Variable Area Flowmeter Enclosure IP67 was tested for dust ingress as per IS/IEC: 60529:A1:1989+A2:2013 for enclosure of category-II (Test condition clause 13.4 + 13.6). The above mentioned Variable Area Flowmeter Enclosure IP67 was kept in dust chamber, in normal mounting condition but was not connected to vacuum pump any conduit open were left open during the test. The test was carried out for 8 Hour.

Acceptance Condition

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

Observation:

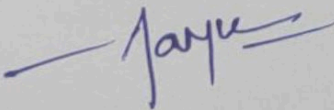
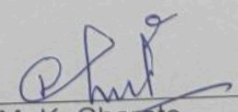
The Variable Area Flowmeter Enclosure IP67 cover lid was opened and was inspected for dust entry. It was observed that there were no traces of dust entry inside the Variable Area Flowmeter Enclosure IP67.

Result

Hence the Variable Area Flowmeter Enclosure IP67 Passed for IP 6X Test.

2. Test for IP X7 (Protection against Immersion)

The Variable Area Flowmeter Enclosure IP67 was tested for Immersion of water as per IS/IEC: 60529:A1:1989 + Ed.2.1 2001-02 + A2:2013 (Clause 14.2.7).

| | |
|---|--|
|  Mr. Ashwin More Lab Technician (IDEMI) Tested By |  Mr. M. K. Charate Technical Manager Checked & Authorized By |
|---|--|



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वैद्युतिक मापन उपयंत्र अभिकल्प संस्थान, मुंबई
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| FLUID FLOW LABORATORY | |
|----------------------------------|-----------------------------------|
| Model No.: R-300/D | ULR No.: TC553824000000036F |
| Sr. No.: SC/25/IP67a | Test Report No.: TR/FFL/099/24-25 |
| Date of Testing: 20 & 28/02/2025 | Page No.: 3 of 4 |

The above mentioned Variable Area Flowmeter Enclosure IP67 was immersed for 30 minutes in water reservoir in such a way that water level was maintained on Variable Area Flowmeter Enclosure IP67 as per the Standard Test.

Acceptance Condition:

If any water has entered it shall not:

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

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 IP67 cover lid 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 IP67.

Result

Hence the Variable Area Flowmeter Enclosure IP67 Passed for IP X7 Test.

[Signature]

[Signature]

| | |
|------------------------|-------------------------|
| Mr. Ashwin More | Mr. M. K. Charate |
| Lab Technician (IDEMI) | Technical Manager |
| Tested By | Checked & Authorized By |



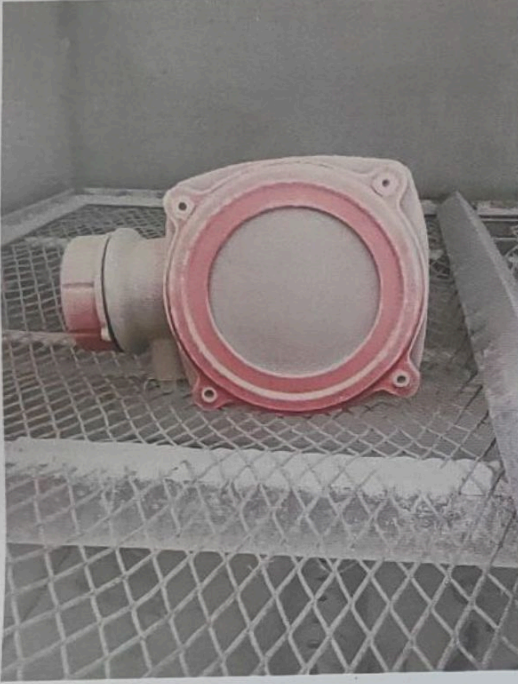
सत्यमेव जयते

वैद्युतिक मापन उपयंत्र अभिकल्प संस्थान, मुंबई
**INSTITUTE FOR DESIGN OF ELECTRICAL
MEASURING INSTRUMENTS, MUMBAI**



| FLUID FLOW LABORATORY | |
|----------------------------------|-----------------------------------|
| Model No.: R-300/D | ULR No.: TC553824000000036F |
| Sr. No.: SC/25/IP67a | Test Report No.: TR/FFL/099/24-25 |
| Date of Testing: 20 & 28/02/2025 | Page No.: 4 of 4 |

Protection against Dust (IPX6)



Protection against Water (IPX7) (Immersion)

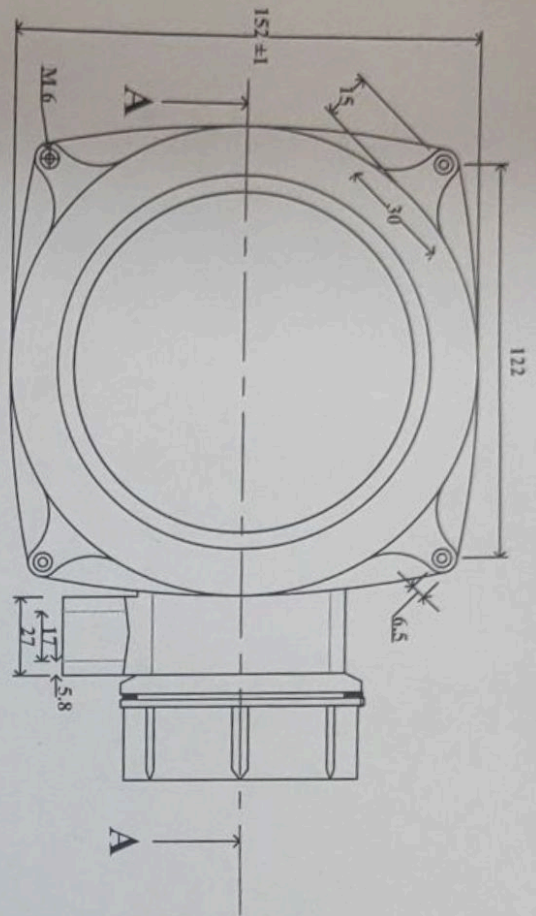


Ashwin More

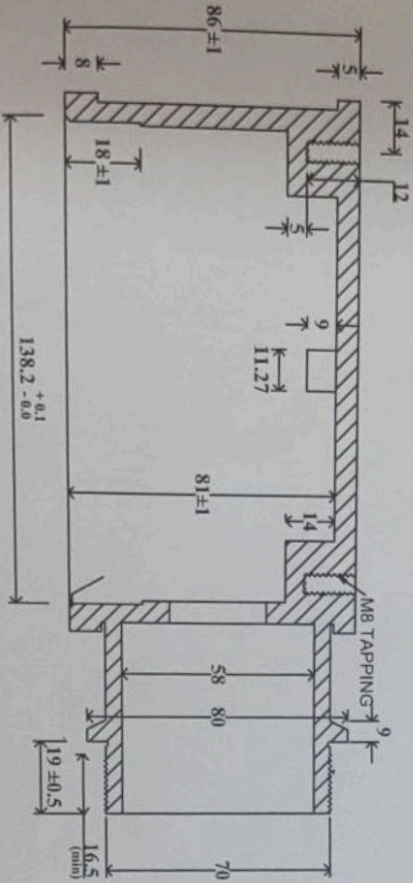
M. K. Charate

| | |
|------------------------|-------------------------|
| Mr. Ashwin More | Mr. M. K. Charate |
| Lab Technician (IDEMI) | Technical Manager |
| Tested By | Checked & Authorized By |

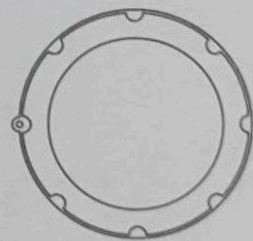
*****END OF TEST REPORT*****



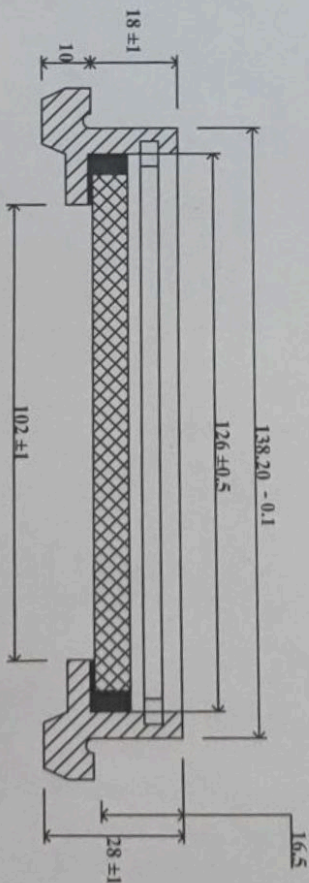
Top view - Enclosure



Cut sectional Front view - Enclosure



Front view - Electrical Supply Cap



Cut sectional Front view - Cap

SPINK CONTROLS, THANE

Title: VARIABLE AREA FLOW METER
ENCLOSURE FOR IP-67

| | | | | |
|-------|-----|-------|----------|-------------------------|
| DRG. | AVR | SCALE | 1 : 2 | MODEL NO. - R-300/D |
| CHKD. | VDR | DATE | 19.02.25 | SHEET 1 OF 1 |
| APPD. | VDR | REV. | R00 | DRG. NO. - SC/25/1P/67a |

Spink
**INSTITUTE FOR DESIGN OF
 ELECTRICAL MEASURING INSTRUMENTS**
 (GOVERNMENT OF INDIA SOCIETY)
 Chunabhatti, Sion P.O., Bombay-400 022