RCPT APPARATUS

Comes in various number of channels

Vedantrik Technologies

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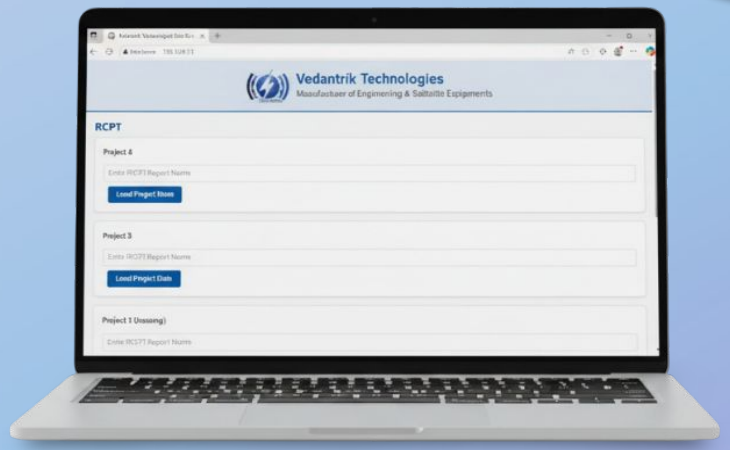
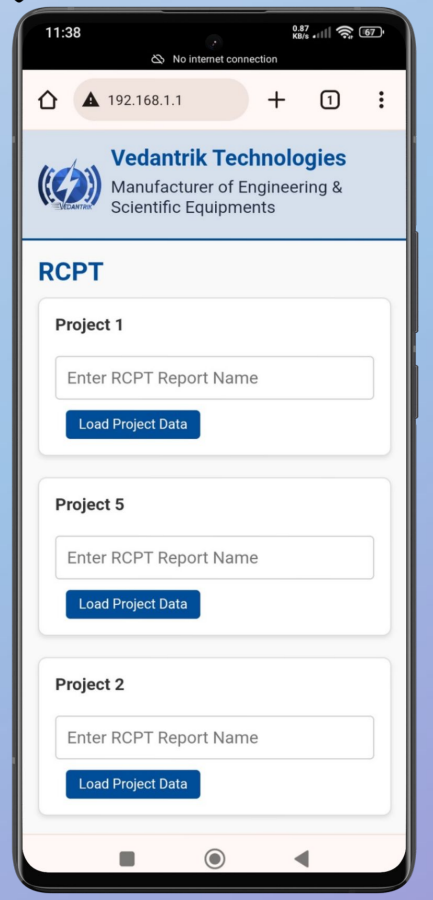
Technical Specifications

- Voltage: 0–80V DC Variable
- Chamber Suitable for NaCl and NaOH to conduct tthe test.
- Current Measurement accuracy: +/– 1mA with 0.001mA resolution
- Temperature Range 0–100 deg cel.
- RCPT test as per ASTMC 1202
- Online temperature sensing with individual sensor slot with accuracy of +/– 1 degree Celsius.
- Input Voltage 110v–290v

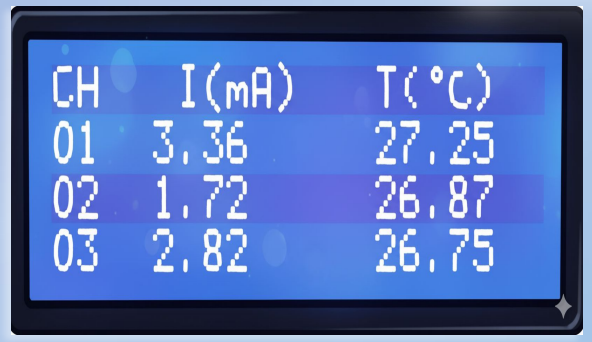
WIRELESS CONNECTIVITY

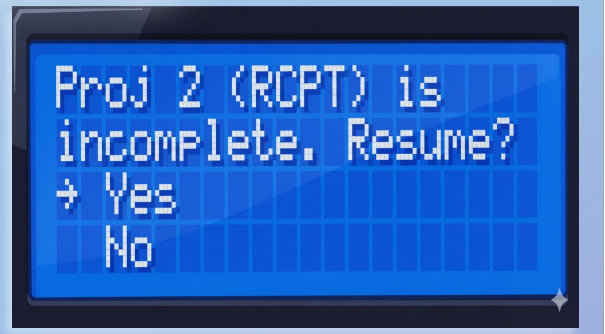




Protection against Power cut

- In this test 6 hours of continues power supply is necessary, as the project cycle in the machine can be disturbed if there is a power cut before 6 hours or before test completion.
- But Vedantrik RCPT keeps the record of the running test, and even if there is a power cut before test completion, it can resume the test without any human intervention
- The Vedantrik RCPT machine ensures uninterrupted testing with its smart power failure recovery system, letting you resume tests instantly after outages. No data loss, no wasted time—just reliable performance, every time .





INTELLIGENT BACKUP & DATA HOLD

In-Built Volatge Stabilizer

- Unlike conventional RCPT machines that rely on bulky transformers to convert fluctuating AC input to 60V DC, Vedantrik RCPT contains advance micro-controller-based power electronics for precise voltage regulation.
- This ensures a stable 60V DC output—even when input voltage fluctuates—guaranteeing full compliance with ASTM C1202 standards.

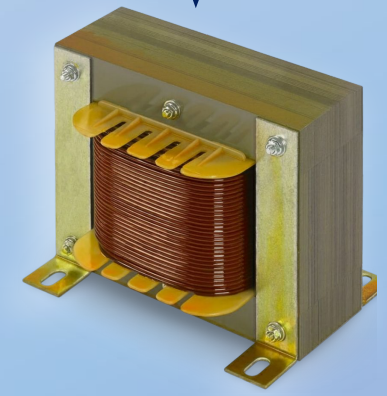
VEDANTRIK RCPT

MICRO CONTROLLER BASED POWER ELECTRONICS

FLUCTUATNG AC INPUT BUT STILL PRECISE AND STABLE DC OUTPUT

DESIRABLE

OTHER RCPT



BULKY TRANFORMER

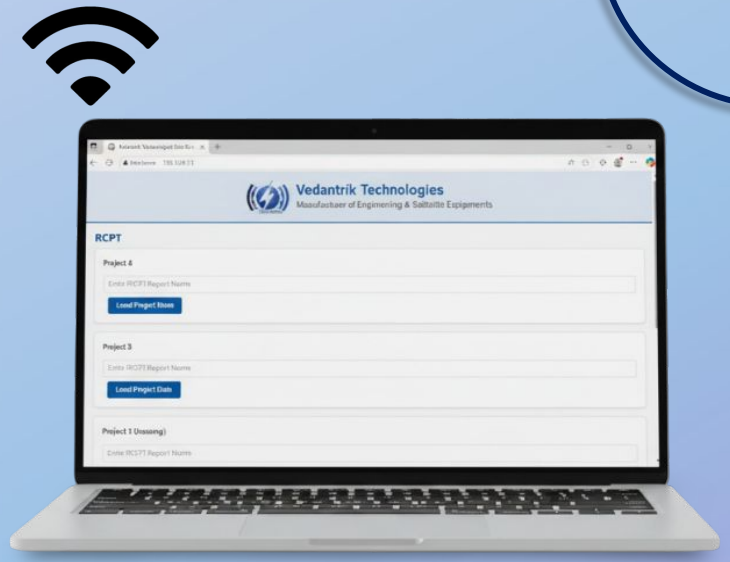
FLUCTUATNG AC INPUT LEADS TO FLUCTUATING DC OUTPUT

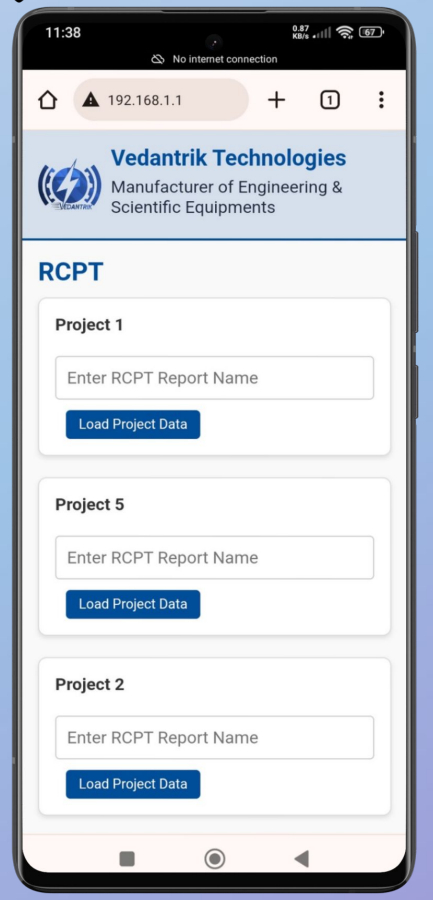
UNDESIRABLE

In-Built Wi-Fi Hot-spot on Motherboard

- Traditional RCPT machines require USB cables or RS232 ports for connection, often involving driver installation and manual COM port selection—plus, they need to stay physically connected throughout the test.
- Vedantrik RCPT overcomes this with an in-built Wi-Fi hotspot on the motherboard, enabling seamless wireless connection to your PC or laptop—no drivers, no cables, no hassle.

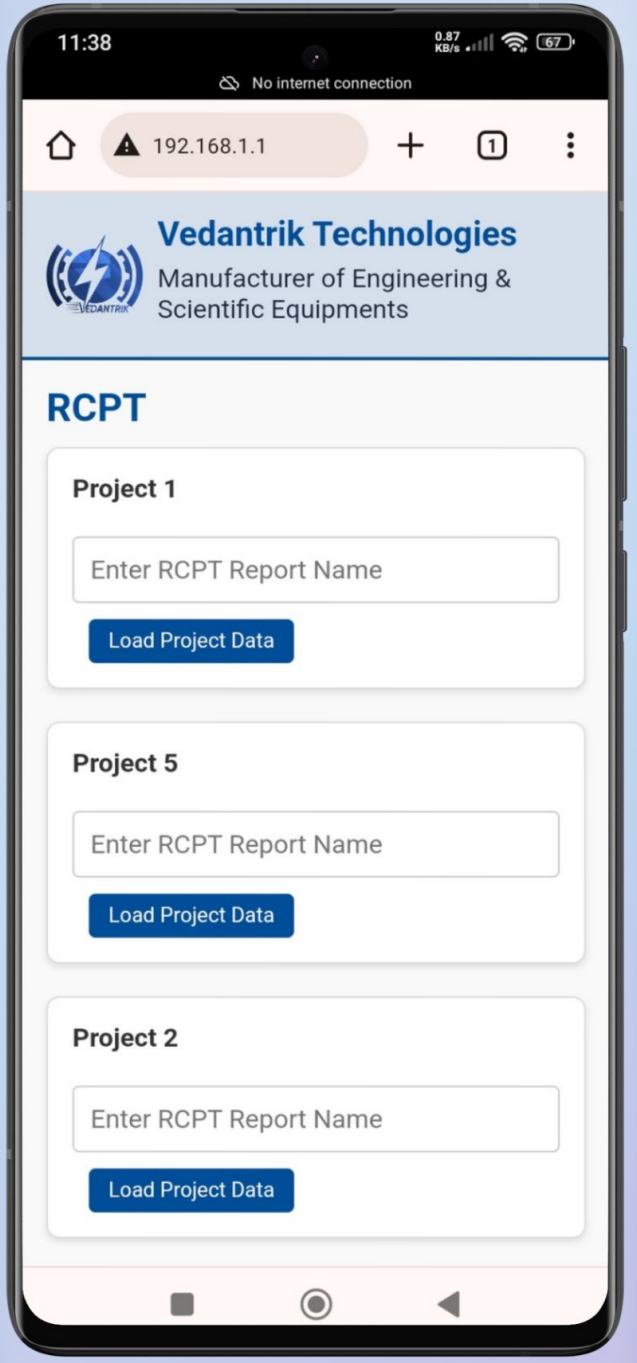
WIRELESS CONNECTIVITY





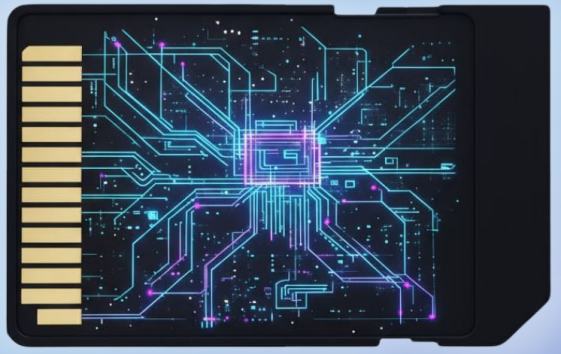
Web-Based software works without internet using Wi-Fi Hot-spot

- The Vedantrik RCPT features a web-based software interface accessible instantly via its built-in Wi-Fi through any standard web browser—no installation, drivers, or compatibility concerns needed.
- Users can monitor live current and temperature readings, view real-time current vs. time graphs, and generate automatic test reports, including Coulomb values and temperature logs.
- All data can be downloaded or exported directly from the interface, using a laptop, PC, or smartphone—from anywhere within Wi-Fi range.
- It overcomes the limitations of traditional systems, which often require complex software setups and specific hardware or OS specifications.



In-built Data Aqquisition System

- Unlike most conventional RCPT equipment that rely on external data acquisition systems or dedicated PCs connected via USB or other cables—adding complexity and dependency—the Vedantrik RCPT features a built-in data acquisition system that operates independently.
- It records and stores test data in real-time and results are automatically saved can be accessed wirelessly through the machine's integrated Wi-Fi hotspot enhancing the reliability and portability of the system.



- INDEPENDENT OPERATION
- SEAMLESS WIRELESS DATA ACCESS
- SUPERIOR RELIABILITY & PORTABILITY

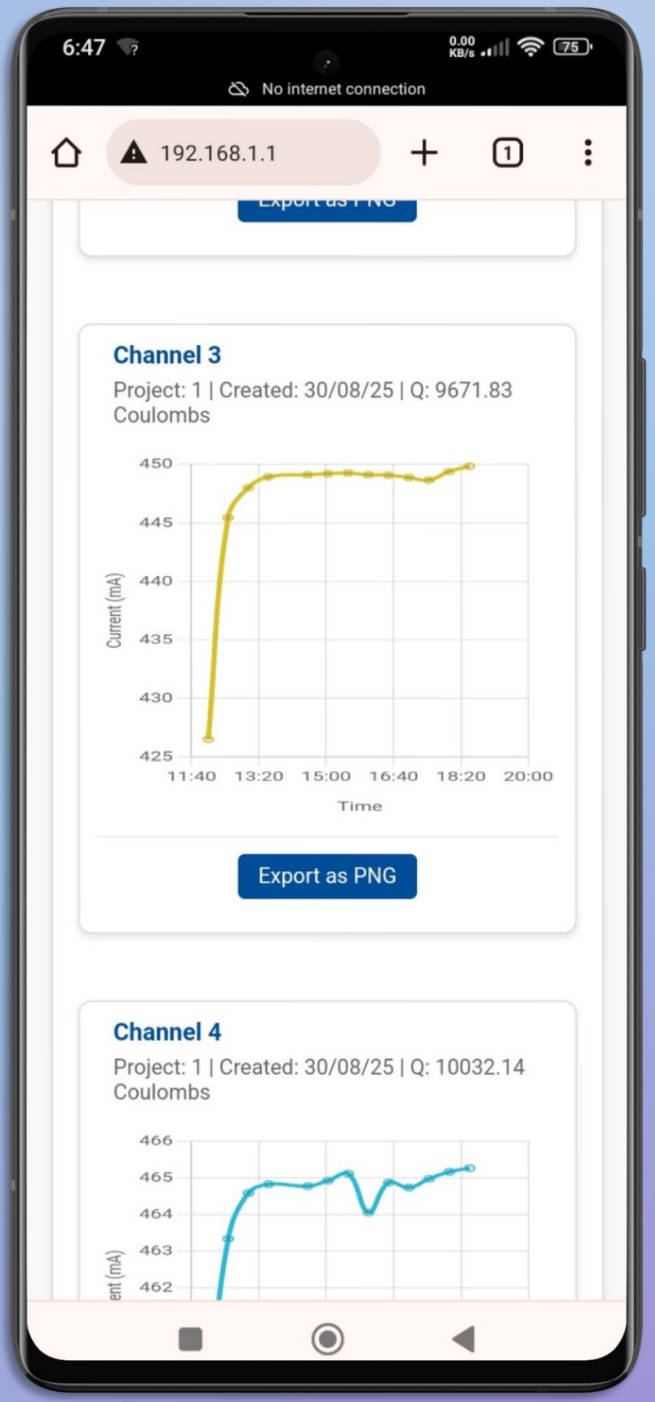
Real time data monitoring remotely

- Traditional RCPT systems require constant onsite monitoring, which can be inconvenient and restrictive.
- Vedantrik Technologies eliminates this with an inbuilt Wi-Fi system for real-time remote data monitoring by connecting mobile devices, laptops, or PCs to track live test data, access logs, and receive updates from anywhere within Wi-Fi range—boosting operational flexibility in both labs and field sites.

Graphical representation of current vs time

- In RCPT testing, current is continuously measured and logged over time.
- Unlike traditional machines that only capture raw data for later analysis, the Vedantrik RCPT offers real-time graphical representation of Current vs. Time, delivering instant insights throughout the full 6-hour test.
- The machine connects to any smartphone, laptop, or PC with a dedicated, web-based dashboard hosted directly on the device, providing a streamlined platform for live monitoring, easy data access, and efficient test management.

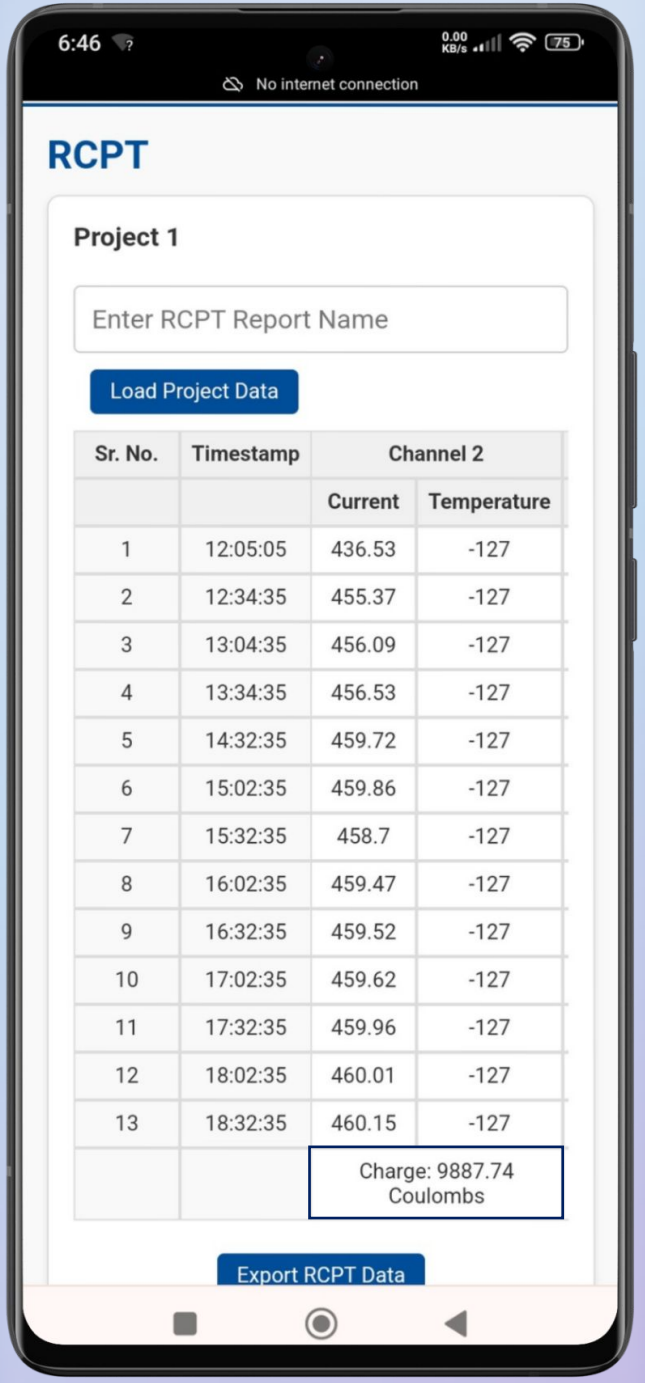
- REAL-TIME GRAPHICAL REPRESENTATION
- CURRENT VS. TIME GRAPH
- INSTANT INSIGHTS DURING 6-HOUR TEST



Automatic calculation and report generation

- RCPT testing requires complex calculations to interpret the final result, which can be time-consuming and prone to errors.
- The Vedantrik RCPT by automating the entire process, instantly providing the final Coulomb value for fast, accurate assessments.
- It generates detailed reports—including current vs. time graphs, temperature logs, and test duration—that cab be downloaded from its web-based software, making documentation and analysis effortless.

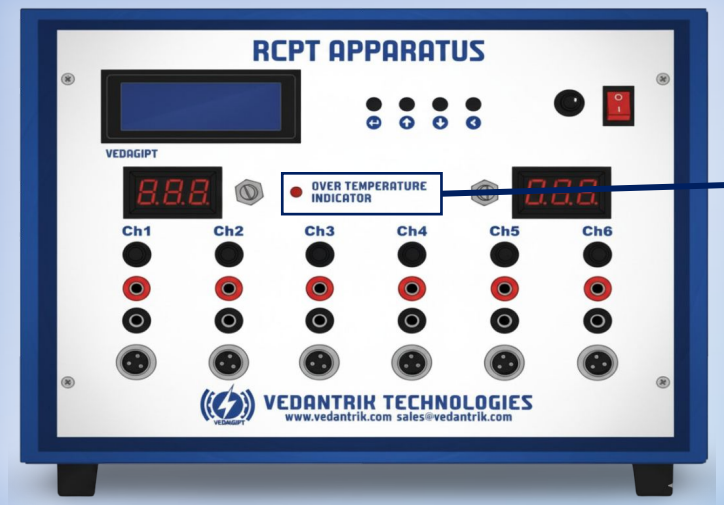
- INSTANT COULOMB VALUE
- FAST, ACURRATE ASSESSMENTS
- FINAL RESULT PROVIDED



Sr. No.	Timestamp	Channel 2	
		Current	Temperature
1	12:05:05	436.53	-127
2	12:34:35	455.37	-127
3	13:04:35	456.09	-127
4	13:34:35	456.53	-127
5	14:32:35	459.72	-127
6	15:02:35	459.86	-127
7	15:32:35	458.7	-127
8	16:02:35	459.47	-127
9	16:32:35	459.52	-127
10	17:02:35	459.62	-127
11	17:32:35	459.96	-127
12	18:02:35	460.01	-127
13	18:32:35	460.15	-127
		Charge: 9887.74 Coulombs	

Over Temperature Notification

- If the temperature in an RCPT test cell exceeds 90°C, the results must be discarded due to compromised accuracy.
- The Vedantrik RCPT machine solves this with an intelligent LED-based over-temperature alert system that automatically activates when any cell crosses the 90°C threshold.
- This real-time notification ensures users can take immediate action—protecting data integrity and ensuring full compliance with testing standards.



OVER TEMPERATURE INDICATOR

INTELLIGENT LED ALERT SYSTEM
AUTOMATIC ACTIVATION > 90^0C

REAL-TIME NOTIFICATION / IMMEDIATE ACTION
DATA INTEGRITY PROTECTED / FULL COMPLIANCE

Required Accessories

- Main Unit machine
- RCPT cell
- Rubber Gasket
- Stainless Steel (SS) ring
- Stud, Nut & Spanner
- Temperature sensor for individual cells
- Pair of cable with banana connector for each cell Red, Black (chamber)
- Negative – Positive SS terminal stands banana connector installed

Vaccum Pump & Desiccator Setup required for sample conditioning, before starting the test, It is a seperate part & accesories mentioned in ASTM C1202