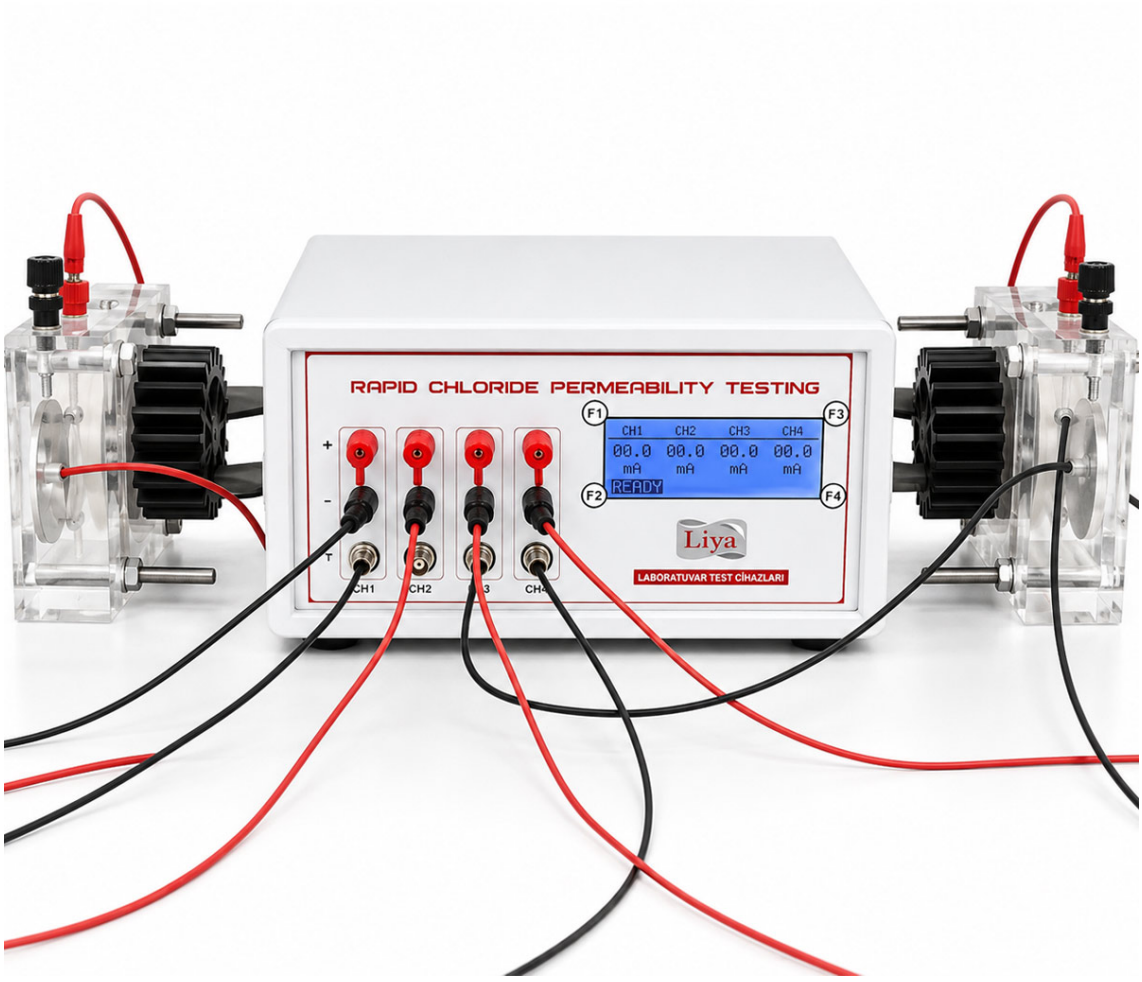
Rapid Chloride Permeability Test

LT-C0900 / LT-C0901 | RCPT testing and data recording system

4 and 8 channels • Current and temperature monitoring • USB PC connection



4 / 8

CHANNEL COUNT BY MODEL

±0.1 mA

LT-C0900 CURRENT MEASUREMENT ACCURACY

ASTM C1202 / C1202M • AASHTO T277 • RCPT result: total charge (C)

Photographs and Components

Control unit, channel connections, test cells and computer monitoring

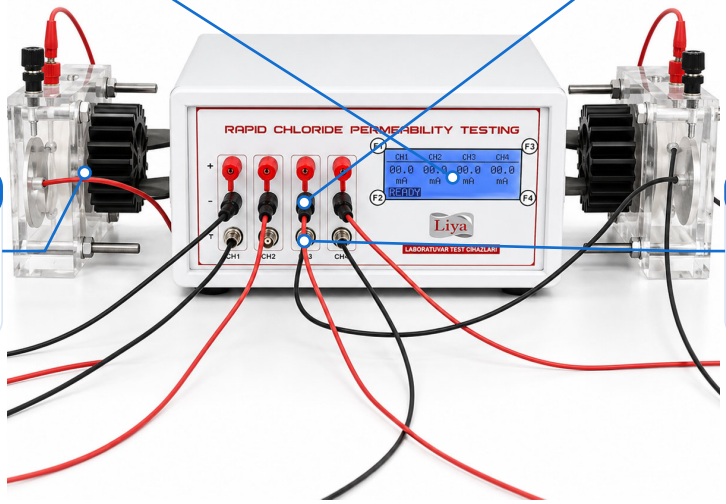
The RCPT system records current passing through hardened concrete and calculates total electrical charge. Independent channels support monitoring of several specimens. Current, temperature and channel records are reviewed through software.

DISPLAY AND MONITORING

Channel status and measurement values can be observed. Current and temperature tracking support test evaluation.

CHANNEL CONNECTIONS

Connect each specimen to its assigned channel. Match channel identification to the specimen record.



TEST CELLS

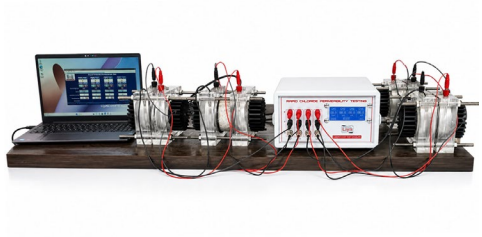
The specimen is mounted between two solution cells. Seals and connections help limit solution leakage.

TEMPERATURE CONNECTION

Temperature measurement connections support monitoring of test heating. Check each channel's connections.



Four-channel control and connection panel

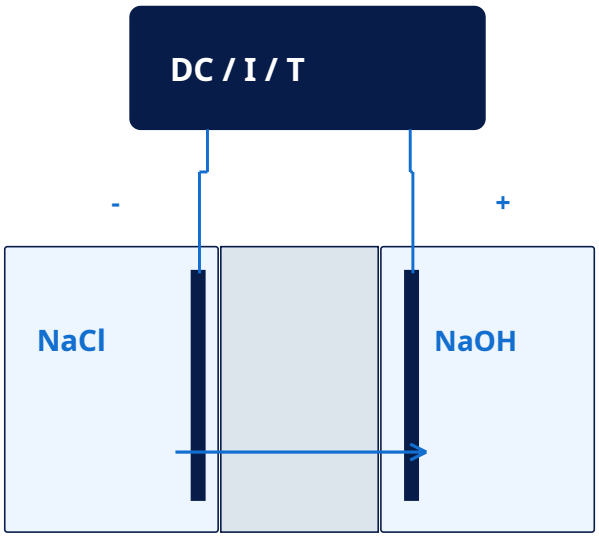


Test cells and computer-based test arrangement

RCPT Principle and Total Charge

Prepare specimen • Connect cells • Monitor current and temperature • Report charge

SPECIMEN BETWEEN TWO CELLS • SCHEMATIC



CONCRETE SPECIMEN

RESULT: TOTAL ELECTRICAL CHARGE (C)

RCPT: ELECTRICAL INDICATION OF PENETRABILITY

Prepare and Mount

Prepare and condition the specimen to the method. Seal its curved surface and mount it between cells.

Connect and Monitor

Arrange solutions and connections to the method. Monitor current and temperature for each channel.

Calculate and Report

Calculate total charge from recorded current and time. Create an individual test record for each specimen.

RCPT evaluates resistance to chloride penetration through an electrical indication. The result is not a direct chloride diffusion coefficient. Assess specimen preparation, temperature behaviour and recording conditions together with the result.

Models and Data Records

LT-C0900 provides four independent channels and LT-C0901 eight. LT-C0900 current accuracy is ±0.1 mA; its recording interval is 1–10 minutes.

Match every channel to a specimen ID. Record test start, interval and operating conditions. Monitor data in software through the USB PC connection and keep separate channel results.

Specimen and Solution Preparation

Prepare the concrete slice to the selected method and complete required vacuum saturation and conditioning. Check the sealed curved surface and cell gaskets.

For the RCPT arrangement, place sodium chloride and sodium hydroxide solutions on the specified sides. Check solution and electrical connections before testing; clean the cells after use.

Models and Specifications

LT-C0900 / LT-C0901 • Channel options, monitoring and reporting features

Product Code	Channels	Current Accuracy	Recording Interval
LT-C0900	4	±0.1 mA	1–10 minutes
LT-C0901	8	-	-

Operating Feature	Value / Description
Test Approach	Electrical RCPT method
RCPT Result	Total charge passed, coulombs (C)
Channel Management	Independent specimen and channel monitoring
Monitored Data	Current / temperature / channel status
Computer Connection	USB
Reporting	Individual test record for each channel
RCPT References	ASTM C1202 / C1202M; AASHTO T277
Related Standard Reference	ASTM C1760

Specimen ID, Leak Tightness and Heating

Match channels to specimen IDs. Check cell seals and connections; monitor temperature change throughout the test and report results with preparation conditions.

RCPT Test Workflow

01
Condition
Prepare and saturate the specimen to the method.

02
Mount in Cells
Check solutions, gaskets and channel connections.

03
Monitor and Record
Track current and temperature regularly.

04
Report and Clean
Report total charge and clean the cells.

Product Page | liyatest.com.tr/en/urun/rapid-chloride-permeability-test-apparatus/