

Accelerated Corrosion Test Apparatus -8 Channel with DAQ Software

MODEL: VSLIC-C258 | MAKE: VERTEX

ACCELERATED CORROSION TEST APPARATUS- 8 CHANNEL WITH DAQ SYSTEM



Product Overview.

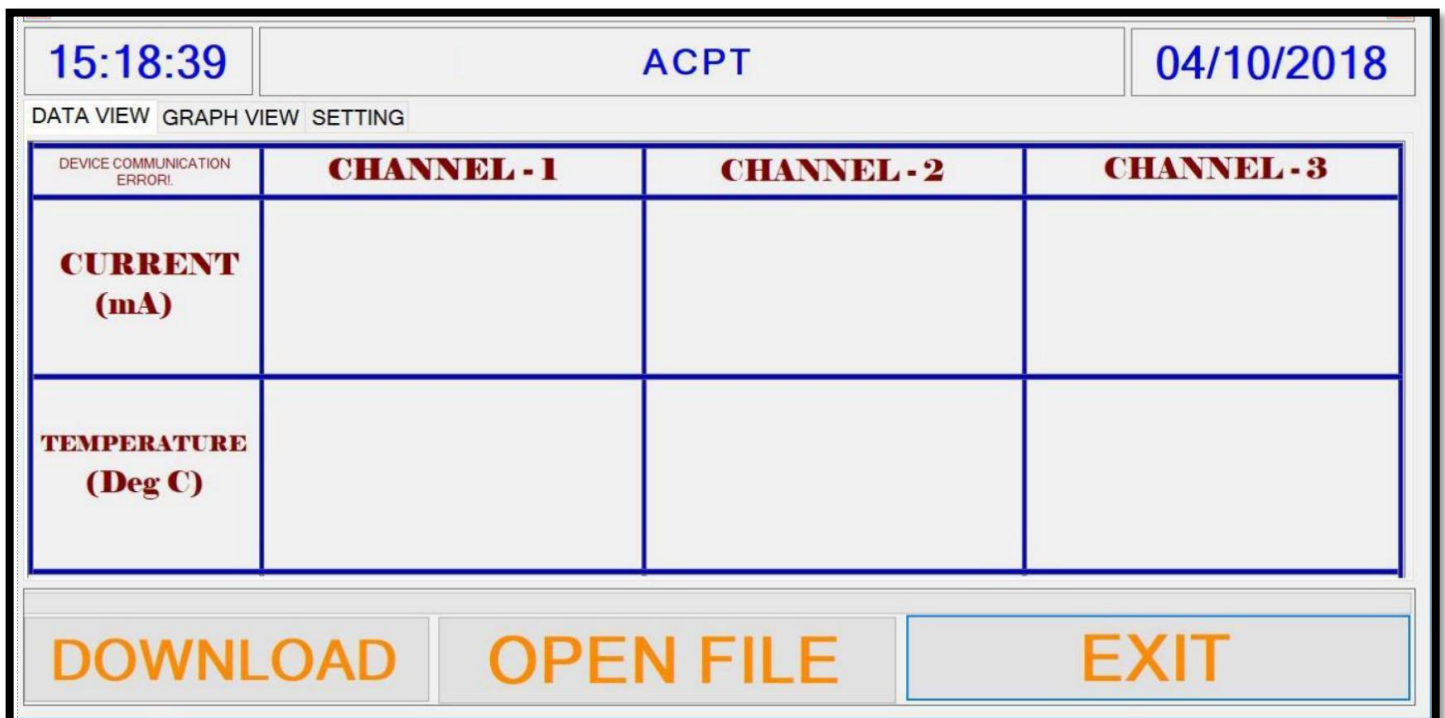
- The DC power supply for all the 8 cells 0 to 12 volt continuously.
- The DC supply is provided to all the three channels and the current of individual cells are monitored continuously.
- Each channel is provided with protective fuse.
- Flexible cables with banana type pins are provided for all the cells for easier connections to the ACPT apparatus.
- DC voltage is controlled by continuously adjustable potentiometer
- Power input: 230 volt 50Hz AC
- Battery backup: 12v 75AH batteries x 6Nos connected in series.



Data Acquisition System (DAQ)

- Four-line LCD display is provided to indicate the current in milli ampere for three channels.
- 3 ½ digit LED display to indicate the DC voltage. 0-99.9 V range.
- DC voltage in 0-99.9volt, current in 999.9 milliampere
- LCD displays indicate all the parameters continuously. All the data are transmitted to the computer simultaneously.
- Record Interval time set: 0-999hr, 0-99min and 0-99 Sec. (Normally 30min is for RCPT test)
- Total log time set: 0-99hr, 0-99min and 0-99 Sec.
- The set values are settable through key pad switches provided.
- All the acquired data are transferred to the PC through RS232 output and through USB
- The monitor displays the present current reading as well as the cumulative current reading.

Software Layout



15:18:39 ACPT 04/10/2018

DATA VIEW GRAPH VIEW SETTING

DEVICE COMMUNICATION ERROR!	CHANNEL - 1	CHANNEL - 2	CHANNEL - 3
CURRENT (mA)			
TEMPERATURE (Deg C)			

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Instrument Test Setup

- 1) The equipment consists of a precision Voltage source which feed current (milli ampere range) to the Concrete moulds with rebar.
- 2) The moulds can be kept inside the Acrylic container with perforated Stainless steel cathode of suitable diameter.
- 3) NaCl solution is poured inside the container for penetration into the concrete mould. Stable DC voltage is applied between the SS cathode and the steel rod.
- 4) The data acquisition monitors the voltage and current of each concrete mould. The readings are acquired for an interval of say 30 min (can be settable by the user).
- 5) The period of test can be set up to a week. At the end of test the data can be transferred to a PC which will provide all the readings.



- 6) Graphical plot can be done current with respect to time.
- 7) The time at which sudden raise of current will be noted down for each cell
- 8) Logging period and the total test period can be set by the user using the key switches provided.
- 9) The data are stored in the equipment.
- 10) At the end of test a buzzer is activated. The data can be transferred to the PC.

