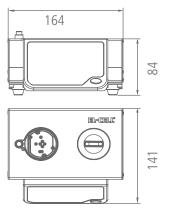




Dimensions in mm:



PAT-Terminal-1

Powerful assistance in the glovebox

The PAT Terminal-1 greatly simplifies your workflow when assembling PAT series test cells in the glove box. It is an advanced PAT-Channel-1 that can perform impedance measurements and other quick functional tests of your test cells as a stand-alone device.

Insert the newly built cell into the PAT-Terminal-1 and directly read the electrical values and sensor signals like force, pressure, or dilation on the large display.

This allows you to make precise sensor adjustments for in-situ cells such as the PAT-Cell-Force directly in the glove box or to check the electrical values immediately after assembly.

Of course, the PAT-Terminal-1 is also a fully equipped test channel with all PStat/GStat/EIS abilities and can be connected as usual to the controller unit of a PAT-Tester-x-8.

Key Features

- Fully equipped test channel with PStat/GStat/EIS
- Can be operated as a stand-alone device directly in the glovebox
- Can perform cell functionality checks (e.g. impedance)
- Integrated display showing live data of inserted test cell
- Can be used as test channel in a PAT-Tester-x-8 setup

Use Cases:

- Stand-alone device for cell sensor adjustment and functionality tests
- Fully equipped test channel with PStat/GStat/EIS for use in a PAT-Tester-x setup

Product website:



Manual (PDF):





Specifications

Weight 1.5 kg Channels per device 1 Control Voltage / Compliance Voltage 7.7 V to +7 V / -8 V to 8 V (no load) Current ±100 mA Cell connection / Electrode connection 3 electrodes, sense connections, connection matrix ADC 2 x 24 bit DAC 1 x 18 bit Slew rate 2.5 V / µs Bandwidth ranges 500 kHz, 50 kHz, 5 kHz Sampling interval (rate) 1 ms (1000 samples per second) with intelligent data recording Input impedance >100 MQ 20 pF Computer Interface 1 GBit Ethernet, Multiuser, Device runs standalone (immune to network interr Acquisition voltages Full cell voltage, both half-cell voltages, auxiliary voltage Measurement Noise floor 30 µV peak-peak typical Control Resolution 57 µV (18 Bit) Current Ranges ±100 mA, ±10 mA, ±1 mA, ±100 µA, Autorange Measurement Noise floor <1 µA @ 100 mA, =10 mA, =10 nA @ 1 mA, =1 nA @ 100 µA Control Resolution 1 nA min. (18 bit) Frequency range 100 µHz to 100 kHz Impedance mode PEIS and GEIS (simultaneous measurement of full- and half-cell impedances) Impedance mode PEIS and GEIS (simultaneous measurement of full- and half-cell impedances) ElS quality indicator SFDR (Spurious Free Dynamic Range) ElS dadptive amplitude yes Additional measurement (each channel) Multiple digital IPC bus sensors, e.g. for cell temperature and gas pressure, 17 voltage input, e.g. for cell temperature and gas pressure, 17 voltage input, e.g. for cell temperature and gas pressure, 17 voltage input, e.g. for cell temperature and gas pressure, 17 voltage input, e.g. for cell temperature and gas pressure, 17 voltage input, e.g. for cell temperature and gas pressure, 17 voltage input, e.g. for cell temperature and gas pressure, 17 voltage input, e.g. for cell temperature and gas pressure, 17 voltage input, e.g. for cell temperature and gas pressure, 17 voltage input, e.g. for cell temperature and gas pressure, 17 voltage input, e.g. for cell temperature and gas pressure, 17 voltage input, e.g. for cell temperature and gas pressure, 17 voltage input, e.g. for cell temperature and gas pressure, 17 voltage input, e.g	
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