



Release 1.2

PAT-Single-Stand

Docking station



中国独家授权代理商:海蓝嘉胜科技(北京)有限公司 地址:北京市朝阳区东亚望京中心A座2712室 电话:010-84786125 邮箱:xiaowei_dong2012@163.com 网址:www.highlandbest.com The information in this manual has been carefully checked and believed to be accurate; however, no responsibility is assumed for inaccuracies.

EL-CELL GmbH maintains the right to make changes without further notice to products described in this manual to improve reliability, function, or design. EL-CELL GmbH does not assume any liability arising from the use or application of this product.



Content

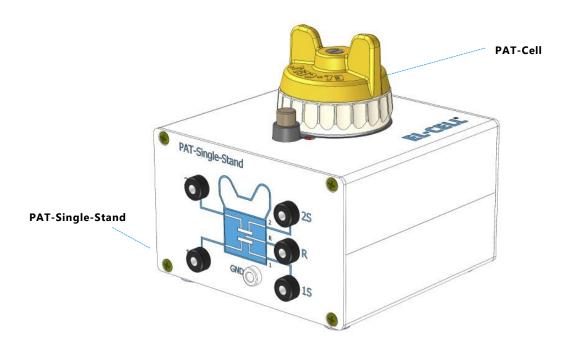
1	Product description
2	Installation5
3	Cleaning
4	Operation modes
5	Cable colors and naming conventions7
6	Unpacking
	Technical Data
8	Spare Parts
9	Technical Support9
10) Warranty9



1 Product description

The PAT-Single-Stand is the docking station for a single PAT series test cell. When docked into the PAT-Single-Stand, the test cell may be tested by any potentiostat or battery tester.

The compatible test cells and the PAT-Core concept are covered in detail by other manuals: (<u>http://el-cell.com/downloads/downloads-manuals</u>).



Features

- Docking station for one PAT series test cell, ready for connection to a potentiostat or battery tester channel.
- Compatible with all of today's potentiostats and battery testers.
- The test cell is just plugged into the PAT-Single-Stand.
- Can easily be used in the glove box.
- No wiring effort, less errors, increased testing productivity.
- Compatible with the following test cells:

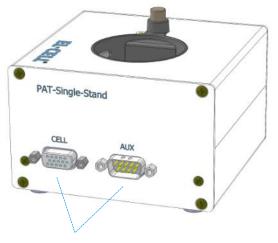
PAT-Cell

PAT-Cell-Press



2 Installation

The PAT-Single-Stand should be placed on a flat, dry and clean surface, for example on a bench top, inside a temperature chamber or a glove box.



The "CELL" socket may optionally be used for connecting the PAT-Single-Stand to a potentiostat (instead of connecting to the banana sockets at the front). The "AUX" socket is for future use. 4 mm banana sockets for connection to the cell cable of a potentiostat or battery tester. Adapters for connection of 2 mm banana plugs are included.

GND O

PAT-Single-Stand

Pin-Out of Sub-D F15 HD Connector "Cell" at PAT-Single-Stand

Sub-D F15 Pin #	1	2	4	5	10
Signal	15	25	R	2	1

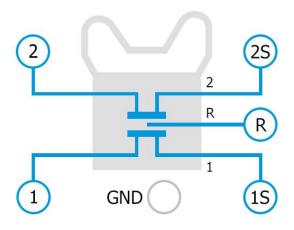
3 Cleaning

Wipe the PAT-Single-Stand with a moist tissue. Do not use aggressive chemicals for cleaning. Protect the PAT-Single-Stand from dust and moisture.



4 Operation modes

Connect the cell cable of your potentiostat to the banana sockets at the front of the PAT-Single-Stand. For the different operation modes, see the table below.



Operation mode 1: Cell voltage control (1 vs 2)

PAT-Single-Stand	1	1S	2	2S	R
Potentiostat	WE	WE-Sense	CE	CE-Sense RE	-

Operation mode 2: Half cell voltage control (1 vs R)

PAT-Single-Stand	1	15	2	25	R
Potentiostat	WE	WE-Sense	CE	CE-Sense	RE

Operation mode 3: Half cell voltage control (2 vs R)

PAT-Single-Stand	1	1S	2	2S	R
Potentiostat	CE	CE-Sense	WE	WE-Sense	RE



5 Cable colors and naming conventions

The connection namings mentioned in the operation mode tables can differ from the used potentiostat. To view specific naming conventions from selected different manufacturers see the table below.

Important note: The application of our test cells is not limited to the potentiostats listed below. Our test cells can be used with all other potentiostats as well.

Exemplary potentiostat	WE	WE-Sense	CE	CE-Sense	RE
BioLogic	WE	Ref1	CE	Ref3	Ref2
(i.e. VSP, VMP3)	Red cable	Red cable	Blue cable	Blue cable	White cable
Gamry Instruments (i.e. Reference 3000 [™])	Green cable	Blue cable	Red cable	Orange cable	White cable
Ivium Technologies	WE1	S	CE	-	RE
(i.e. IviumStat)	Red cable	White cable	Black cable		Blue cable
Metrohm Autolab	WE	S	CE	-	RE
(i.e. PGSTAT Series)	Red cable	Red cable	Black cable		Blue cable
Princeton Applied Research (i.e. PARSTAT 2273)	Green cable	Grey cable	Red cable	-	White cable



6 Unpacking

Check the contents of the packages against the list given below to verify that you have received all of the required components. Contact EL-CELL, if anything is missing or damaged. **NOTE**: Damaged shipments must remain within the original packaging for freight company inspection.

List of Components

- PAT-Single-Stand (without PAT-Cell) ECE1-00-0010-A
- 6 x adapter male 4 mm to female 2 mm ELT9081



7 Technical Data

- Operating temperature: -20 to +70°C
- Humidity: non condensing
- Dimensions: 105 mm (width) x 113 mm (depth) x 80/110 mm (height without/ with PAT-Cell)
- Weight: 0.56/0.96 kg (without/with PAT-Cell)
- IP Procection Class: DIN EN 60529 IP20

8 Spare Parts

Adapter male 4 mm to female 2 mm ELT9081



9 Technical Support

Technical support for this product is exclusively provided by EL-CELL GmbH.

10 Warranty

For a period of one year from the date of shipment, EL-CELL GmbH (hereinafter Seller) warrants the goods to be free from defect in material and workmanship to the original purchaser. During the warranty period, Seller agrees to repair or replace defective and/or nonconforming goods or parts without charge for material or labor, or, at the Seller's option, demand return of the goods and tender repayment of the price. Buyer's exclusive remedy is repair or replacement of defective and nonconforming goods, or, at Seller's option, the repayment of the price.

Seller excludes and disclaims any liability for lost profits, personal injury, interruption of service, or for consequential incidental or special damages arising out of, resulting from, or relating in any manner to these goods.

This Limited Warranty does not cover defects, damage, or nonconformity resulting from abuse, misuse, neglect, lack of reasonable care, modification, or the attachment of improper devices to the goods. This Limited Warranty does not cover expendable items. This warranty is void when repairs are performed by a non-authorized person or service center. At Seller's option, repairs or replacements will be made on site or at the factory. If repairs or replacements are to be made at the factory, Buyer shall return the goods prepaid and bear all the risks of loss until delivered to the factory. If Seller returns the goods, they will be delivered prepaid and Seller will bear all risks of loss until delivery to Buyer. Buyer and Seller agree that this Limited Warranty shall be governed by and construed in accordance with the laws of Germany.

The warranties contained in this agreement are in lieu of all other warranties expressed or implied, including the warranties of merchantability and fitness for a particular purpose.

This Limited Warranty supersedes all prior proposals or representations oral or written and constitutes the entire understanding regarding the warranties made by Seller to Buyer. This Limited Warranty may not be expanded or modified except in writing signed by the parties hereto.

