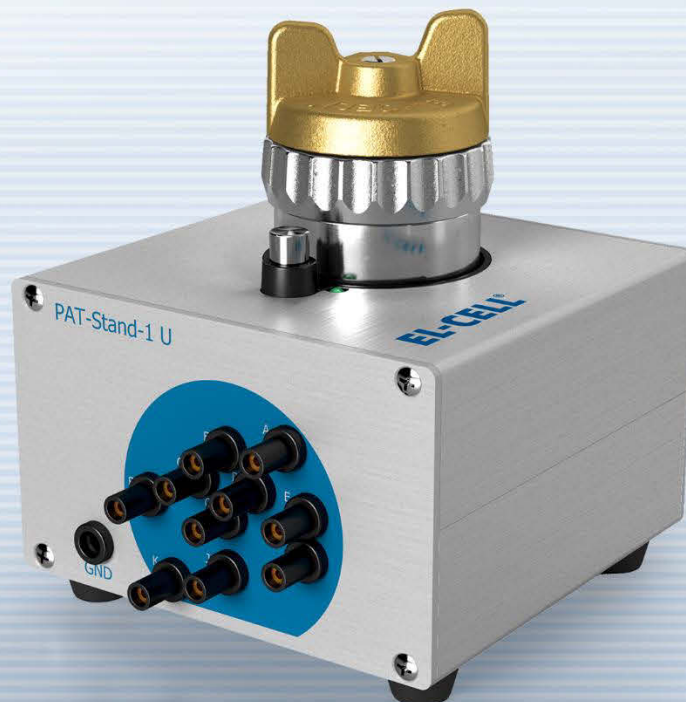


User Manual

Release 1.0

PAT-Stand-1 U

Docking station for PAT-Cell-TwinRef



The information in this manual has been carefully checked and believed to be accurate; however, no responsibility is assumed for inaccuracies.

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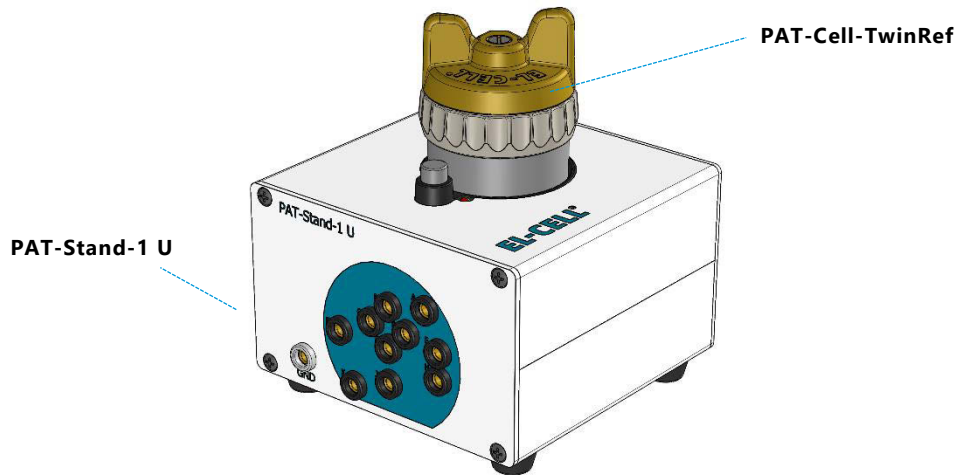
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1 Product description

The PAT-Stand-1 U is a single channel docking station for use with a PAT-Cell-TwinRef.



Features

- Docking station for use with a single PAT-Cell-TwinRef.
- May be used to connect with any other PAT series test cell. All signals of the respective test cell are available through banana sockets at the front panel.
- Compatible with any potentiostat or battery tester.

2 Installation

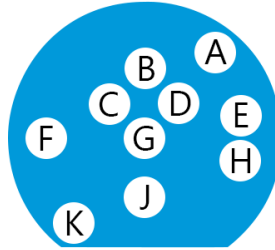
Place the PAT-Stand-1 U on a flat, dry and clean surface, for example on a bench top, inside a temperature chamber or a glove box. Then connect the cell cable of your potentiostat or battery tester channel to the banana sockets at the front of the PAT-Stand-1 U.

3 Cleaning

Wipe the PAT-Stand-1 U with a moist tissue. Do not use aggressive chemicals for cleaning.

4 Signals

Different signals are available at the banana sockets located at the front of the PAT-Stand-1 U depending on which type of PAT-Cell is attached to the stand.



	PAT-Cell-TwinRef	PAT-Cell	PAT-Cell-Press
A	1	1	1
B	R2	Not used	SUP (I ² C)
C	Not used	Not used	SDA (I ² C)
D	Not used	Not used	SCL (I ² C)
E	2	2	2
F	R	R	R
G	Not used	B2	AOUT (Pressure)
H	2S	2S	2S
J	Not used	B1	GND
K	1S	1S	1S

1/1S: PAT-Core lower electrode power/sense

2/2S: PAT-Core upper electrode power/sense

R: PAT-Core reed contact (reference), PAT-Core-TwinRef primary reed contact (1st reference)

R2: PAT-Core-TwinRef secondary reed contact (2nd reference)

AOUT: sensor analog signal

SUP: +5V supply for sensor and I²C

SDA, SCL: I²C signals

GND: Signal ground for SUP, AUT, SCL, SDA

B1, B2: used for cell detection in PAT-Stand-16 and PAT-Chamber-16

5 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-Stand-1 U [ECE1-00-0010-C](#)
- 11 x adapter male 4 mm to female 2 mm [ELT9081](#)

6 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)
- Protection Class: IP20 according to EN 60529

7 Spare parts

Adapter male 4 mm to female 2 mm [ELT9081](#)

8 Technical support

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

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9 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.