

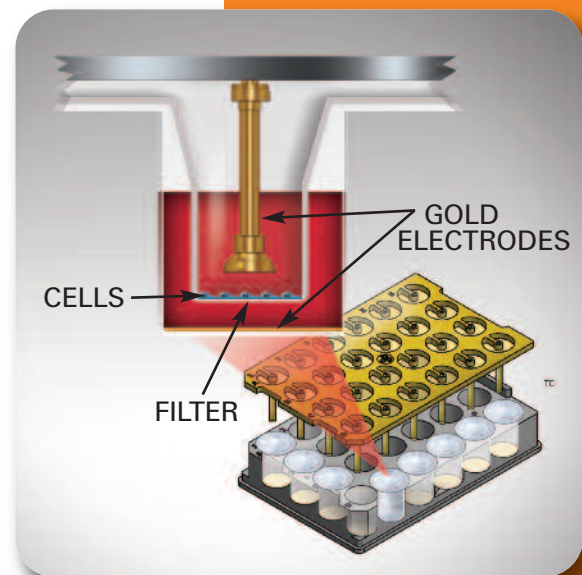


## Barrier Function Measurement System

Continuous  
real-time TEER

10-1,000 ohm-cm<sup>2</sup>

- Continuous long-term measurement of TEER from under 10 to 1,000 ohm cm<sup>2</sup> in up to 24 wells
- Uses standard commercially available 24 Well membrane inserts
- Fast barrier function dynamics can be monitored
- Accurately measures endothelial and epithelial barrier function
- Located in incubator for long term experiments
- Real time visualization of TEER; control of sampling rate
- Group average and compare data
- Up to 24 wells can be simultaneously displayed and analyzed
- Export data to Excel or other statistical programs
- Data output in CSV or graphical (JPEG, TIFF)



*TEER 24 uses standard  
6mm filter inserts.*

# TEER 24

This system provides repeatable, label free automated TEER measurements to electrically monitor the barrier function of epithelial and endothelial cells as they are grown in normal CO<sub>2</sub> high humidity incubators. Data is collected continuously and reported as real-time changes in barrier function of cell layers in ohm-cm<sup>2</sup>.

## User friendly software

- CONNECT** Confirms wells are connected
- ZERO** Stores values without cells (flat-fielding).
- SETREF** Select at least 1 cell free reference well to monitor and compensate for incubator changes
- START** Inoculate filters and begin measurement of selected wells
- MARK** Inserts notes with time in the data file
- PAUSE** Clock remains running, data collection paused, recheck connections before resuming

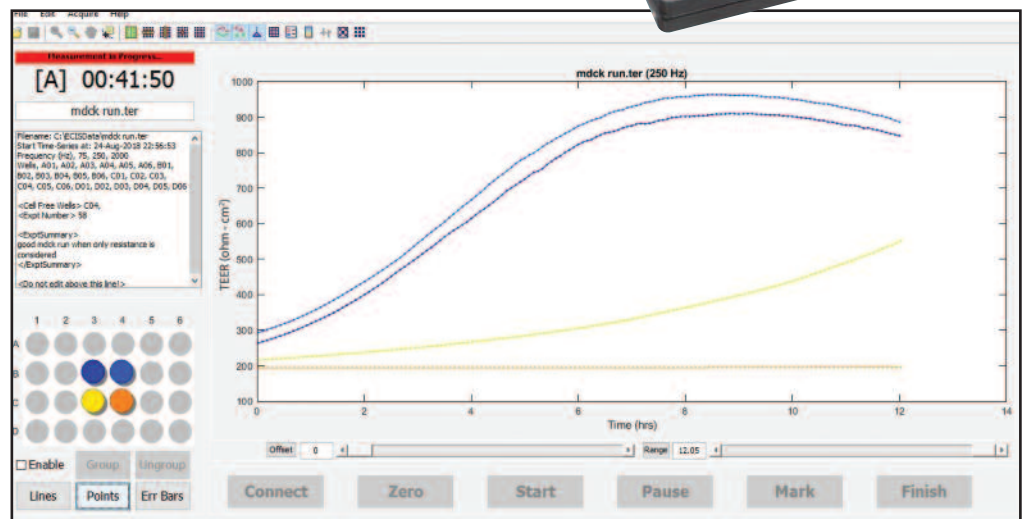
## Specifications:

- 24 well microplates use standard 6mm filters
- Gold electrodes
- 75Hz sinusoidal excitation
- 24 well dipping assembly can autoclaved or oven sterilized
- Station dimensions 10 x 3 x 15cm
- Power: <1 watt, 12 V dc
- Station: 25.5 x 18 x 4.5 cm, 2.3kg
- Controller: 21.5 x 18 x 4.5 cm, 2kg
- Windows 10 OS



### System includes:

- TEER 24 station located in CO<sub>2</sub> incubator
- Stainless steel plate assembly with 24 gold plated dipping pins
- External control module
- Laptop PC
- ECIS acquisition, control and display software
- Validation test array
- Four TEER 24 consumable microplate arrays



Distributed by:



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