TEILCH

TCH Pro 202 - Quick Start Guide

Box Contents

- TCH Pro 202 Handheld Particle Analyzer
- Power Supply
- Isokinetic Probe
- Barbed Probe
- Inlet Filter
- SD Memory Card (2GB) - Installed
- USB Cable
- USB Flash Drive (Software and documentation)
- Inlet Caps (x2)
- Case Protector
- Carrying Case
- Inlet O-ring seal replacements (x4)

Connections

- USB: Use for data (mass storage), firmware upgrade and slow charge (500mA)
- Power: Use for fast charge (2.5A)

Screen Symbols

SD	SD Inserted
SD	SD Busy - Do Not Remove
⬇	Data Saved to SD
⬇	Data Not Saved (SD not present or full)
💾	Save
🔒 🔓	Lock. Default password is 1234. To reset password, press reset button.
🔧	Settings
← ↵ 🏠 →	Navigation
🔴	Red Dot: Coincidence Loss Error

Using the Particle Analyzer

- Press and hold Power Button for 3 Seconds to turn ON
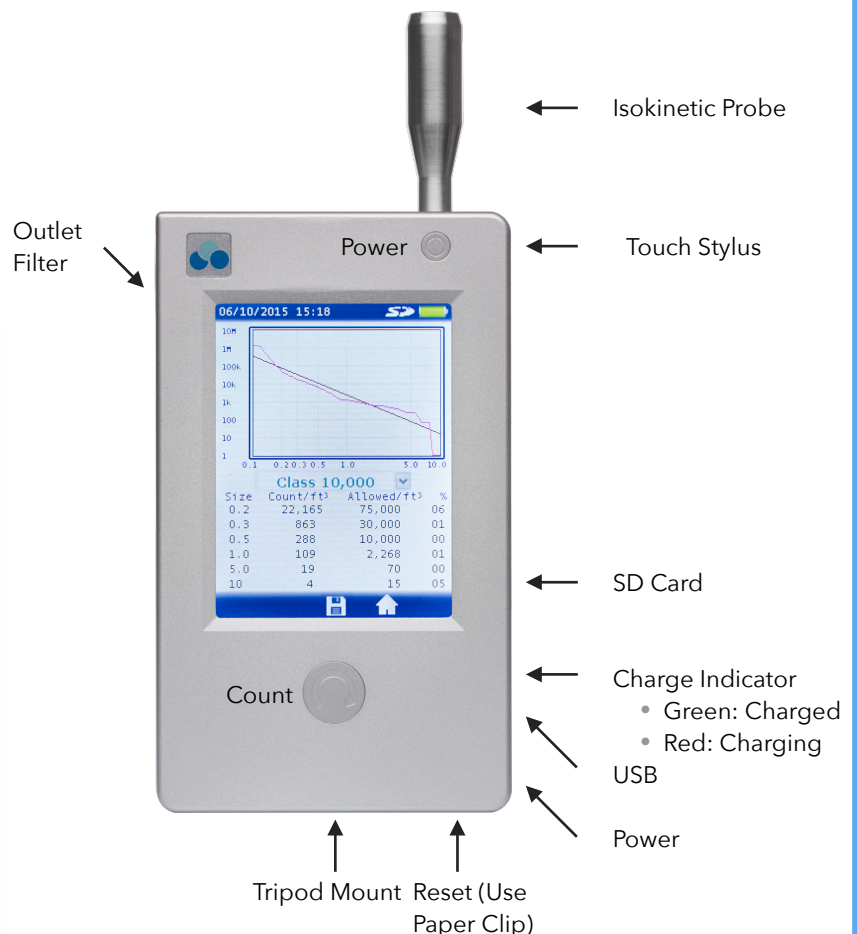- Select mode and follow on-screen instructions
  - ‣ Cleanroom Particle Analysis: Cleanroom certification and monitoring
  - ‣ Continuous Particle Log: Save full particle log data into SD Card
  - ‣ Air Quality Analysis: Particulate Matter
  - ‣ Pressure: Differential Pressure Sampling
- To purge sensor, install Inlet Filter and run any Count cycle (pump ON) for 1 minute

Isokinetic Probe

Outlet Filter

Power

Touch Stylus

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Class 10,000

Size	Count/ft³	Allowed/ft³	%
0.2	22,165	75,000	06
0.3	863	30,000	01
0.5	288	10,000	01
1.0	109	2,268	01
5.0	19	70	00
10	4	15	05

SD Card

Charge Indicator
- Green: Charged
- Red: Charging

Count

USB

Power

Tripod Mount   Reset (Use Paper Clip)

Advanced Operation

Data Management and Analysis: Data may be viewed and analyzed on instrument screen or may be saved into SD Card. All data is formatted as text and may be viewed and analyzed with any text or spreadsheet software (not provided by Teilch).

Firmware Upgrade: Press Reset while holding Power button. Follow on screen instructions.

Touch Screen Calibration: If screen touch panel does not work accurately, turn unit off, press and hold Count and press Power while touching screen. Follow on screen instructions.

Specifications	
Particle size range	0.2um (50%) to 10um, continuous
Supported standards	ISO 21501-4 (Instrument), US FED STD 209E and ISO 14644-1 (Cleanroom Classification)
Sensor	High sensitivity, ultra-low noise and fully compensated
Flow	0.1cfm with internal flow meter (1% FS) and active flow control
Light Source	High power, >10,000hr laser diode with active control. Full temperature compensation and stabilization
Pressure	115kPa max, 1Pa resolution
Humidity	5% to 95%, +-2%
Temperature	0-50C, +-0.1C (internal sensor)
Display	3.5" Color LCD
Operating Method	Touchscreen and single button
Battery	User replaceable Li-Ion, 5 hr continuous counting, 10hr intermittent counting. Size: 18650 x 2
Storage	External SD Card
Connections	USB, SD Card
Dimensions	82mm(W)x137mm(H)x42mm(D)
Weight	830gr (w/o accessories)

Important: There are no user-serviceable parts inside this instrument. All repair and maintenance needs should be done by a qualified technician.

Laser Safety: Class I laser-based device. No exposure to laser radiation occurs during normal operation. **DO NOT remove any housings or covers.**