

TDA-100P Automated Filter Tester

Product specifications: TDA-100P Automated Filter Tester

AEROSOL GENERATION	Pneumatic Nebulization PAO-4 , DOP, DEHS Aerosols 0.3µm Mass Mean Diameter (MMD) 0.18µm Count Median Diameter (CMD) Gravimetric Standard Deviation (GSD) < 1.6 20 to 150 mg/m ³ Concentration
AEROSOL DETECTION	Solid State Photometer Dynamic Range: 0.0001 to 200 mg/m ³ Auto-ranging: Penetration value displayed utilizing 5 discrete decades Accuracy: ±1.0% full scale for the range in use Repeatability: ±5.0% full scale reading for the range in use Sample flow rate: 10 to 100 SLPM (0.35 to 3.53 SCFM)
TEST FLOW	Mass Flow Meter Repeatability: ±0.5% Range*: 10 to 100 SLPM (0.35 to 3.53 SCFM) @ 21.1°C, 760 mm Hg
PRESSURE	Accuracy: ±0.5% of full scale Range*: 0 to 100 mm of water column (0 to 3.94 inches w.c.)
EFFICIENCY	Operating Range: Efficiencies 0.0005% to 99.9995% Flow Rate: 10.0 to 100.0 SLPM (0.35 to 3.53 SCFM)
DIMENSIONS	107cm H x 71cm W x 86cm Deep (42"H x 28"W x 34"Deep) 102 Kg (225 lbs.)
OPERATIONAL REQUIREMENTS	Power: 115 VAC, 50/60 Hz, 2 Amps (230V optional) Compressed Air: 340 SLPM @ 5.5 bar (12 SCFM @ 80PSIG)

* Note: Test flow and pressure measurements can be configured to customer requirements.



Service & Training @ ATI

OEM calibration, maintenance & repair

ATI Certified Operational, Service & Maintenance Training (ask for details)

Quality testing for HEPA filters & protective masks available at our ISO-9001 registered, NQA-1 & DOE audited Test Laboratory



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TDA-100P Automated Filter Tester



*Unit shown with optional side mounted test fixture

The TDA-100P is an easy to use, robust automated filter tester that measures efficiency and pressure drop of filter media, filtering face pieces, and filter assemblies across a wide range of air flows using oil aerosol and solid state photometric detection. It is ideally suited for the rigorous quality control and validation requirements of both product development and production environments. The TDA-100P can be custom configured to meet specific customer needs, including integration into automated production facilities for 100% product qualification.

Portable, rugged, and reliable

A great choice for production and development environments

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Choice of manual or automatic operation

Each TDA-100P offers customers the choice of manual or automatic operation.

The manual configuration is the most popular, requiring a person to operate the instrument and facilitate the testing function. It includes a manual test fixture ❶ to accommodate a standard 100cm² flat sheet media adaptor or a customized, user specific adaptor for testing filter assemblies & cartridges such as those used for respirators.

The automatic version has been integrated into multiple Tier-1 manufacturer's automated production lines with great success and is controlled via RS-232 communication port and customer supplied/programmed PLC.

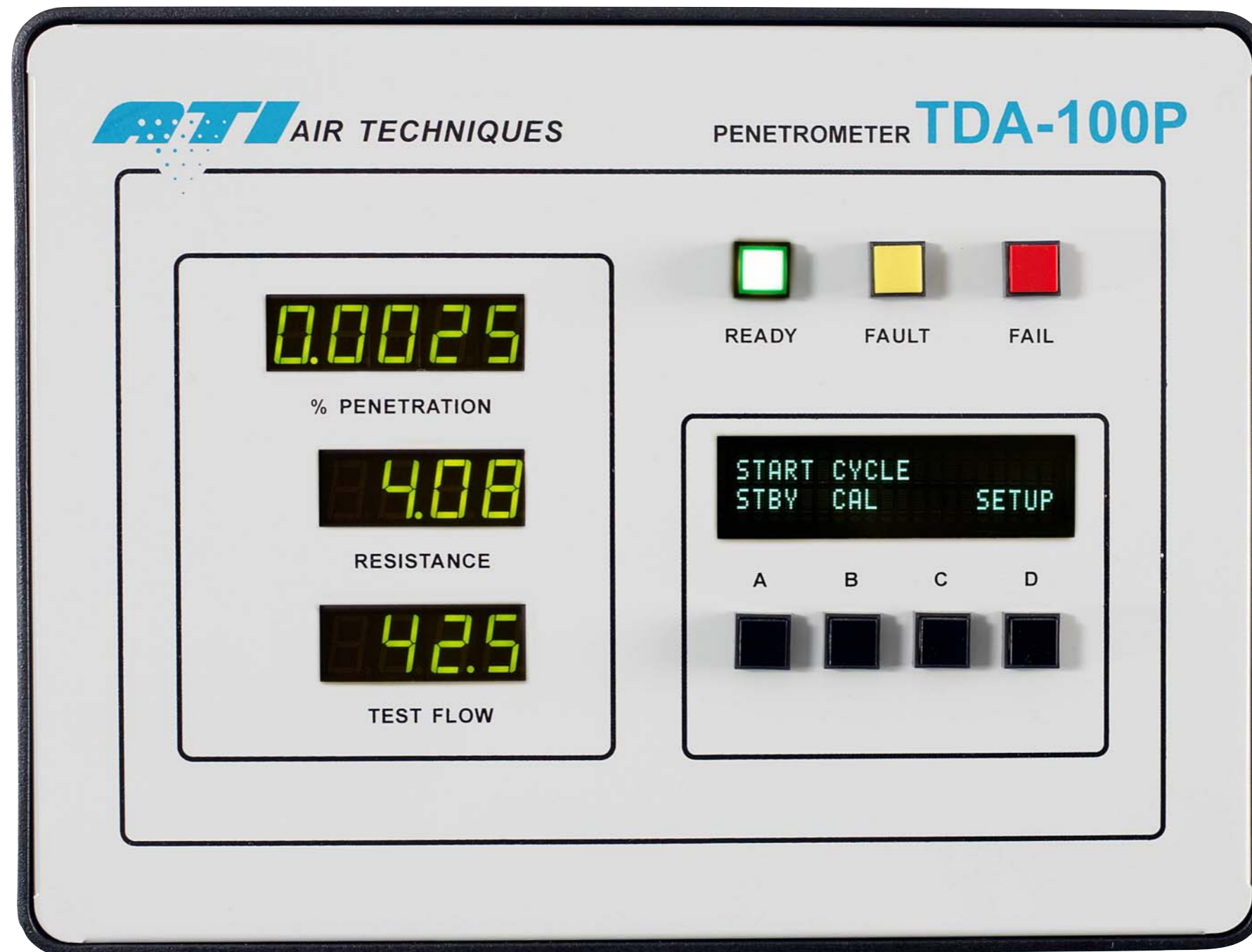
Durable low-maintenance design

The TDA-100P offers excellent durability, routinely exceeding one-half million repetitions between service cycles. Routine preventive maintenance is simple, requiring basic cleaning and inspection of internal tubing and connections.

With ATI's service training, you can perform key calibration and maintenance functions on-site; minimizing downtime and service costs.

Simple Operation

The user interface is a simple, easy to use digital display and four function button arrangement. A standard aerosol refill system ❷ allows near continuous operation of the tester and a configurable power supply ensures the unit is operable almost anywhere in the world.



TDA-100P Display and User Interface



❶ Manual Test Fixture



❷ Standard Aerosol Refill Canister