

Pharmaceutical Clarity and Turbidity Tester

T-CLA-001 measures solution turbidity by 90° scattered light for laboratory clarity testing of injectable preparations and materials. It combines automatic range selection, multipoint calibration and a colour touchscreen.



Key features

- 0-1000 NTU measurement range
- Infrared LED at approximately 860 nm
- Automatic range selection with range-dependent resolution
- Multipoint calibration and USB data transfer

Core specifications

Measurement range	0-1000 NTU
Optical method	90° scattered light; approximately 860 nm
Resolution	0.01 / 0.1 / 1 NTU, depending on range
Standard minimum sample	15 mL
Optional sample accessory	10 mL
Documented power supply	220 V, 50 Hz
Detector	Silicon photocell
Automatic subranges	0.01-19.99; 20.0-99.9; 100-1000 NTU
Resolution by subrange	0.01; 0.1; 1 NTU, respectively
Calibration points	0.02; 20.0; 100; 800 NTU
Repeatability	Five measurements: RSD ≤5% for standards No. 0.5 and 1; ≤2% for standards No. 2-4
Linearity	Standards No. 0.5-4: correlation coefficient ≥0.999
Data storage	Approximately 10 GB; at least 500,000 measurement records
Interfaces	One USB port; optional Wi-Fi printer
Operating temperature	0-50 °C
Dimensions	400 × 280 × 200 mm
Approximate mass	5 kg

Configuration and ordering

Standard Configuration

Power cable, calibration solutions, sample bottles, silicone oil, soft cloth, operating instructions and fuse are listed as standard accessories. Confirm quantities and calibration-solution expiry dates with the quotation.

Optional Accessories

A dedicated 10 mL sample accessory and a Wi-Fi miniature printer are optional. Confirm software licences and network integration separately.

Selection / Ordering Information

Specify the sample, test method and edition, required sample volume, data retention and reporting needs. Confirm export electrical compatibility, calibration traceability, audit-trail functions and system-integration scope before ordering.

The documented application includes the Chinese Pharmacopoeia clarity test, general chapter 0902, method 2 (turbidimetric method). The edition is not specified. Audit-trail capability and possible LIMS connectivity are described, but software version, permissions, export format and integration licences require confirmation. These statements do not constitute pharmacopoeial certification or a validated customer installation.