



Making chemical identification easier

Serstech 100 Indicator is made for measuring chemicals: Explosives, Narcotics, Hazardous substances and Chemical Warfare Agents

■ **Handheld and portable in the field.** It is important that you can start collect information without delay. Often, the conditions are wet, dirty and messy, you need a rugged instrument. The Serstech 100 Indicator is reliable even in difficult circumstances.

■ **Easy to use**

Most users in the field are neither chemists nor computer experts. They need easy-to-use solutions that give them better answers to make better decisions.

- The Serstech 100 Indicator display is easy to understand and easy to act on.
- Multiple scanning methods. Screen a sample for the presence of a restricted substance. Identify all the unknown substances in a sample or verify to search for a match to one specific substance.
- Measure through vials, transparent and translucent glass or plastic bottles, containers or bags. No sample preparation needed.
- Constantly keep up with new chemical substances and create your own libraries from your own measurements or from ChemDash Spec Store.

■ **Connected**

Manage your devices, measurements, spectras and reports, across your organisation with ChemDash—our chemical intelligence software.

■ **Customised**

Add one or several databases according to your needs; Explosives, Narcotics, Hazardous substances or Chemical Warfare Agents.





Serstech 100 Indicator Technical Specifications

Instrument type	Handheld Raman spectrometer
Laser Excitation Wavelength	785nm, Stability <0.01 nm, Linewidth <0.1 nm
Laser Output Power	Max 300mW
Max Spectral Range	400 cm ⁻¹ to 2 300 cm ⁻¹
Spectral Resolution	10 cm ⁻¹
Detector Type	Linear CCD Array
Display	3.5" transmissive color TFT with LED backlighting
Memory	Enough for 20 000 measurements (8 GB)
Data Formats	Text; .txt, .csv, .jcamp
Connectivity	USB 2.0
Battery Rechargeable	Li-ion, capacity 7,22 Wh, >4 hrs Continuous Operation, non-user replaceable
Weight	0,65 kg (1.4 lb)
Size	15.8 cm x 10.1 cm x 2.9 cm (6.2 x 4.0 x 1.1")
Operating Temperature	-20 °C to +40 °C
Storage Temperature	-30 °C to +50 °C
Included accessories	Instrument, watertight case, shoulder strap, USB cable, laser aperture cap with polystyrene target, sample vials, point-and-shoot adapter, vial holder, 90° angle adapter, attachment point, connection kit ethernet and Wifi, AC Adapter 5 VDC/1 A USB for Charging
Start-up time	Less then 30 sec.
Exposure	Manual mode (0.001 – 60 sec) and automatic mode
Additional Features	User authorisation, Event logging, Scan Time Delay
Databases/Libraries	Wide range of categories represented, e.g. Explosives Database, Narcotics Database including cutting agents, masking agents and precursors, Chemical Warfare Agents Database including simulants, Hazardous Database including toxic chemical compounds
Warranty	1 year standard, users can buy two additional years
MTBF	50 000 h
Relative humidity	5-90%
Approvals	EN 60825-1:2007 Class 3B, EN 61000-6-3:2007, AS/NZS CISPR 22, EN 61000-6-1-6-1:2007, EN 61000-4-2, -3, EN 60950-1:2006-05-29 + A1/A2/A11/AC1, EN 60950-22:2006-06-19 + C1/A11/A11C1, EN 61010-1:2010 (Third Edition), Directive 2012/19/EU (WEEE), Directive 2011/65/EU (RoHS), IEC 60529 IP67, MIL-STD-810G 514.6 (vibration), MIL-STD-810G 516.6 (functional shock)
Multilanguage	Chinese, Danish, English, French, German, Indonesian, Japanese, Russian, Spanish, Swedish and Turkish
Software	ChemDash, chemical intelligence software
Type of substances	Solid, liquids, powders and tablets
Analysis of mixtures	Yes
Delay function	Yes, time set by the user

