# Serstech 100 Indicator

## Handheld Identification Made Easy

### Complex Technology Made Easy

Identify any solid or liquid chemical substance in seconds using Raman technology. The Serstech 100 Indicator is easy to use, truly hand-held and insensitive to water. The sample does not need to be removed from its container and will not be destroyed or tampered with by the analysis.

### Validated, Data-Enriched and Complete Libraries

All libraries have been created or validated by our chemists using the Serstech 100 Indicator. Every substance has relevant GHS symbols, CAS numbers and in many cases rich text explaining the properties of the substance. All information is easy to understand and provides instant feedback and decision support.

- **Explosives**
  Includes military and civilian explosives, IEDs, precursors and oxidants.
- **Narcotics**
  Narcotic and psychotropic substances from the UN Yellow and Green lists, including precursors.
- **Hazardous Chemicals**
  Contains more than 2000 TICs (Toxic Industrial Chemicals) and other toxic or hazardous materials.
- **Chemical Warfare Agents**
  Identification of blister, blood, nerve and choking agents, and their precursors.
- **Pharmaceuticals**
  Tailormade library developed for and together with pharmaceutical companies.

### The Most Cost-Effective Raman Solution

- All-in-one solution with one instrument for all types of chemicals.
- No consumables, no factory calibration, no maintenance cost.
- Updates of software and substance libraries included.
- Rechargeable battery lasting more than eight hours.
- Create libraries and add your own substances.
- Quick and easy to decontaminate.
- Training done in hours.

### Management and Reporting Software Included

Manage, expand and name custom substance libraries with ChemDash software. Create reports and export measurements for further analysis. Manage user accounts and set user privileges to secure chain-of-evidence. Use on a PC or in the cloud.

### Low Weight, Safe and Easy to Use

The Serstech 100 Indicator makes the every-day work safer, easier and more efficient for:

- Police authorities.
- Bomb squads.
- Border control.
- Hazmat teams.
- Fire department.
- CBRN readiness teams.
- Prison authorities.
- Pharmaceutical companies.
- Environmental protection agencies.



**SERSTECH**
Chemical identification for a safer world

| | |
|---|---|
| Instrument Type | Handheld Raman spectrometer |
| Laser Excitation Wavelength | 785 nm |
| Laser Output Power | 3 levels available, max 300 mW |
| Max. Spectral Range | 400 cm$^{-1}$ to 2 300 cm$^{-1}$ |
| Spectral Resolution | 8-10 cm$^{-1}$ |
| Detector Type | Linear CCD Array |
| Display | 3.5" transmissive color TFT with LED backlighting |
| Memory | 100 000 measurements (16 GB) |
| Data Formats | Text; .txt, .csv, .jcamp |
| Connectivity | USB 2.0. WiFi and Ethernet (optional) |
| Battery | Rechargeable. More than 8 hours of typical use. Can be extended with standard mobile power banks |
| Weight | 650 g |
| Size | 15.8 cm x 10.1 cm x 2.9 cm |
| Operating Temperature | -20 °C to +50 °C |
| Storage Temperature | -30 °C to +50 °C |
| Included Accessories | Instrument, watertight case, shoulder strap, USB cable, laser aperture cap with calibration target, sample vials, point-and-shoot adapter, vial holder, 90° angle adapter, attachment point, AC Adapter 5 VDC/1 A USB for Charging |
| Optional Accessories | Connection kit with Ethernet and WiFi |
| Start-up Time | Less than 20 sec. |

| | |
|---|---|
| Exposure | Auto-exposure or manual exposure, 0.001 – 60 seconds |
| Libraries | The total number of substances is more than 14 000 and libraries provided are Explosives, including precursors; Narcotics including cutting agents, masking agents and precursors; Chemical Warfare Agents, including simulants; Hazardous materials, including toxic industrial chemicals and Pharmaceuticals with a wide range of active pharmaceutical ingredients |
| Warranty | 1 year. Additional warranty optional |
| MTBF | 50 000 h |
| Relative Humidity | 5-90% |
| Approvals | CE, IEC 60529 IP67, MIL-STD-810G 514.6 (vibration), MIL-STD-810G 516.6 (functional shock) |
| Supported Languages | Chinese, Danish, English, French, German, Indonesian, Japanese, Russian, Spanish, Swedish and Turkish |
| Software Included | ChemDash |
| Type of Substances | Solid, liquids, powders and tablets |
| Mixture Analysis | Yes |
| Delay Function | Yes, 1 second to 15 minutes |
| Additional Features | User authorisation, event logging, scan time delay, user-defined libraries, user-added substances |

Specifications are subject to change without notice.
For the most up-to-date specifications, please visit www.serstech.com