



SERSTECH 100 INDICATOR

Rapid Verification Made Easy

Verify
or identify
substances in
seconds

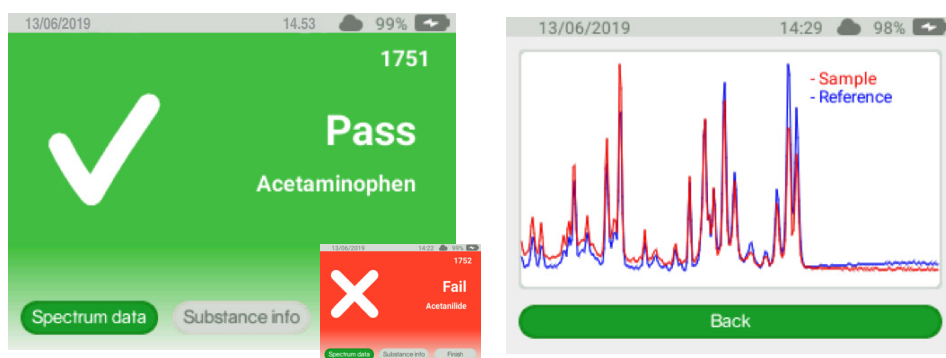
Handheld
Accurate
Lightweight



Complex Technology Made Easy

The Serstech 100 Indicator and the ChemDash Pharma application are designed to be easy and quick to use. The weight of only 650 grams and the small formfactor make the Serstech 100 Indicator truly handheld and its eight-hour battery life allows it to be used a full work-day without recharging.

The solution is Title 21 CFR part 11 compliant and detailed IQ/OQ/PQ documentation is available through your Serstech partner. With a complete audit trail and data integrity you can trust, Serstech's solution is your perfect companion for inventory management and goods inspection.



The clear pass/fail indications for verification are easy to understand for also non-technical users. Additional information, such as Raman spectra and substance information, is available by a single press of a button.

Create and Share Your Own Substance Libraries

Serstech provides substance libraries that have been created and validated with the Serstech 100 Indicator, including pharmaceuticals, narcotics and many other types of chemicals. You can easily and quickly create your own libraries and share them with other instruments through Serstech's ChemDash Pharma software. Spectra can be viewed, named and exported and you can easily create, print and share reports.

Serstech provides optional factory libraries, including raw materials, such as excipients and coating agents, and these can easily be combined with user-made substance libraries. Measurements from one instrument can easily be shared with one or many other instruments.

The Most Cost-Effective Raman Solution

- All-in-one solution with one instrument for all types of chemicals
- No consumables, no factory recalibration, no maintenance cost
- Rechargeable battery lasting more than eight hours
- Create libraries and add your own substances
- Complete staff training done in hours
- Multicomponent identification
- Multi-level user access
- Title 21 CFR Part 11 compliant
- Quick and easy to clean



ChemDash Pharma Software

ChemDash Pharma allows you to manage your measurements and your custom-made libraries. It maintains a complete audit trail and allows you to set detailed user rights for users of each instrument.

With ChemDash Pharma, you can connect several instruments to the same computer and share information between the instruments. Any libraries you create can easily and quickly be shared between instruments and any additional information you have added to each substance will be available to the users of the instruments.

Low Weight and Easy to Use

The Serstech 100 Indicator only weighs 650 grams, which makes it truly handheld and the small form-factor makes it easy to use with one hand. The battery is designed to last all day and its intuitive user interface allows for repetitive tasks with a single press of a button, e.g. verification of the content of many containers.

Serstech 100 Indicator was initially designed to meet the tough standards of military and security staff and is robust, reliable and works in any environment. It is water, shock and vibration proof and can handle any temperature between -20 and 50° C.

A user interface
anyone can use

Title 21 CFR
part 11
compliant

Identify unknown
substances
in seconds

Robust and
reliable under any
conditions

IP67 and easy
to clean



Serstech 100 Indicator

Instrument type	Handheld Raman spectrometer
Laser excitation wavelength	785nm
Laser output power	3 levels available, max 300mW
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. Wi-Fi and Ethernet (optional).
Battery	Rechargeable. More than 8 hours of typical use. Can be extended with standard mobile power banks.
Weight	650 g (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 +50 °C
Storage temperature	-30 °C to +50 °C
Included accessories	Point-and-shoot adapter, vial holder, 90° angle adapter, watertight case, shoulder strap, USB cable, laser aperture cap with calibration target, sample vials, attachment point, AC Adapter 5 VDC/1 A USB for Charging.
Optional accessories	Connection kit with Ethernet and Wi-Fi.
Start-up time	Less than 20 sec. (in room temperature)
Scan-time	Most substances less than 10sec.
Exposure	Auto-exposure or manual exposure, 0.001 – 60 seconds.
Libraries	Additional libraries contain in total 14.000 substances, including more than 450 active pharmaceutical ingredients (APIs), excipients and cutting agents. The user can add more than 100 000 substances to custom-made libraries. Additional libraries, including narcotics and toxic industrial chemicals, are available and can be added at any time.
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), Title 21 CFR part 11 (Instrument and ChemDash)
Supported languages	Chinese, Danish, English, French, German, Indonesian, Italian, Japanese, Korean, Polish, Russian, Spanish, Swedish and Turkish.
Software	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.



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