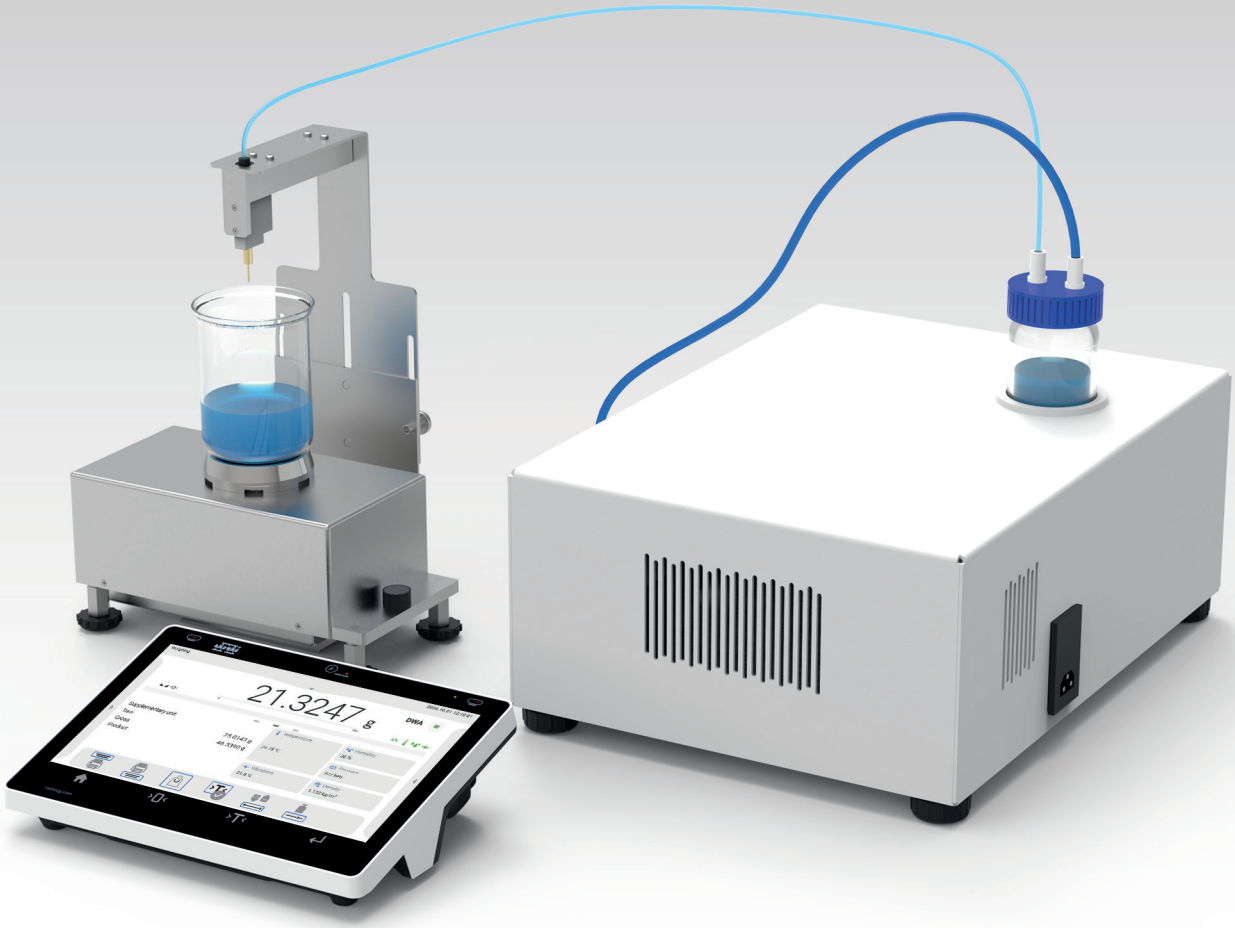
LDS.2.5Y

Liquid Dosing System

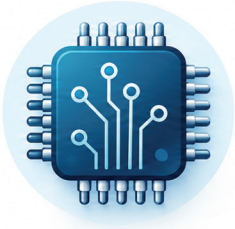




Laboratories



Pharmaceutical Industry



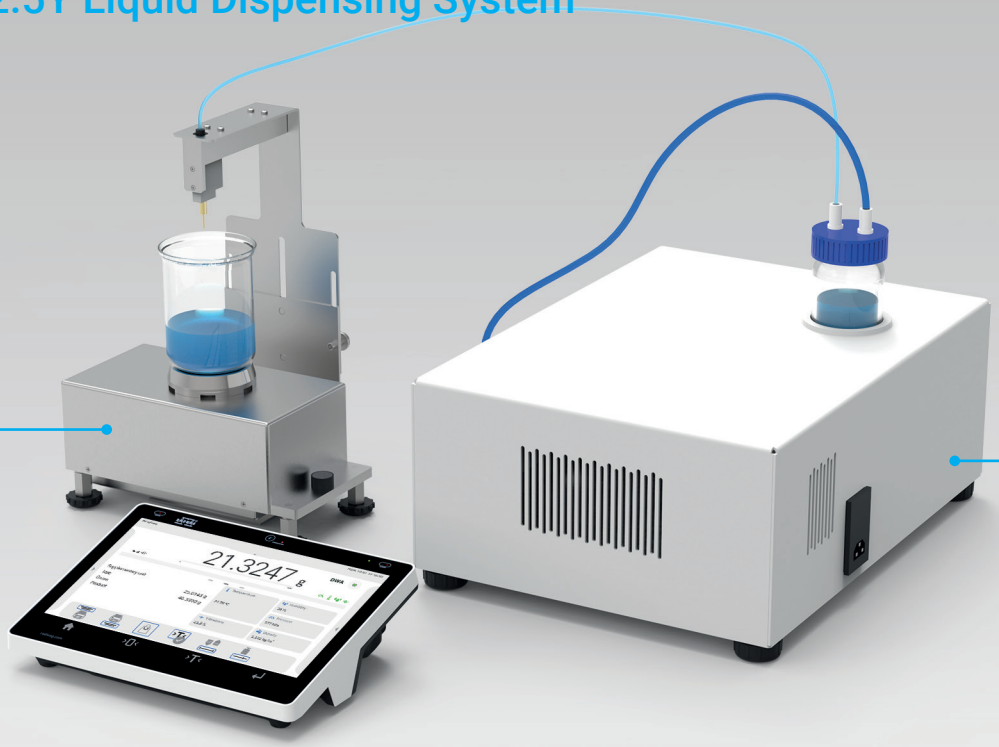
Electronics Industry



Chemical Industry

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LDS.2.5Y Liquid Dispensing System



MAS.Y Weighing Module

The MAS.2M.Y weighing module, equipped with dedicated dosing software, enables precise control of the dosing process according to a user-defined algorithm.

Thanks to continuous mass measurement and closed-loop feedback, the system automatically adjusts the dosing process to maintain the target amount of liquid within specified tolerance limits. It compensates for changes in flow rate caused by pressure fluctuations or varying operating conditions.

Dispensing Unit

The dispensing unit incorporates two pumps responsible for maintaining constant pressure within the system, together with control electronics and a liquid dispensing head. Maintaining stable pressure is essential to achieving the required dispensing accuracy and repeatability.



Wide dosing range
from 10 mg to 200 g.



Automatic process control
based on mass measurement using a closed-loop feedback system.



Automatic dosing stop
upon reaching the target value.



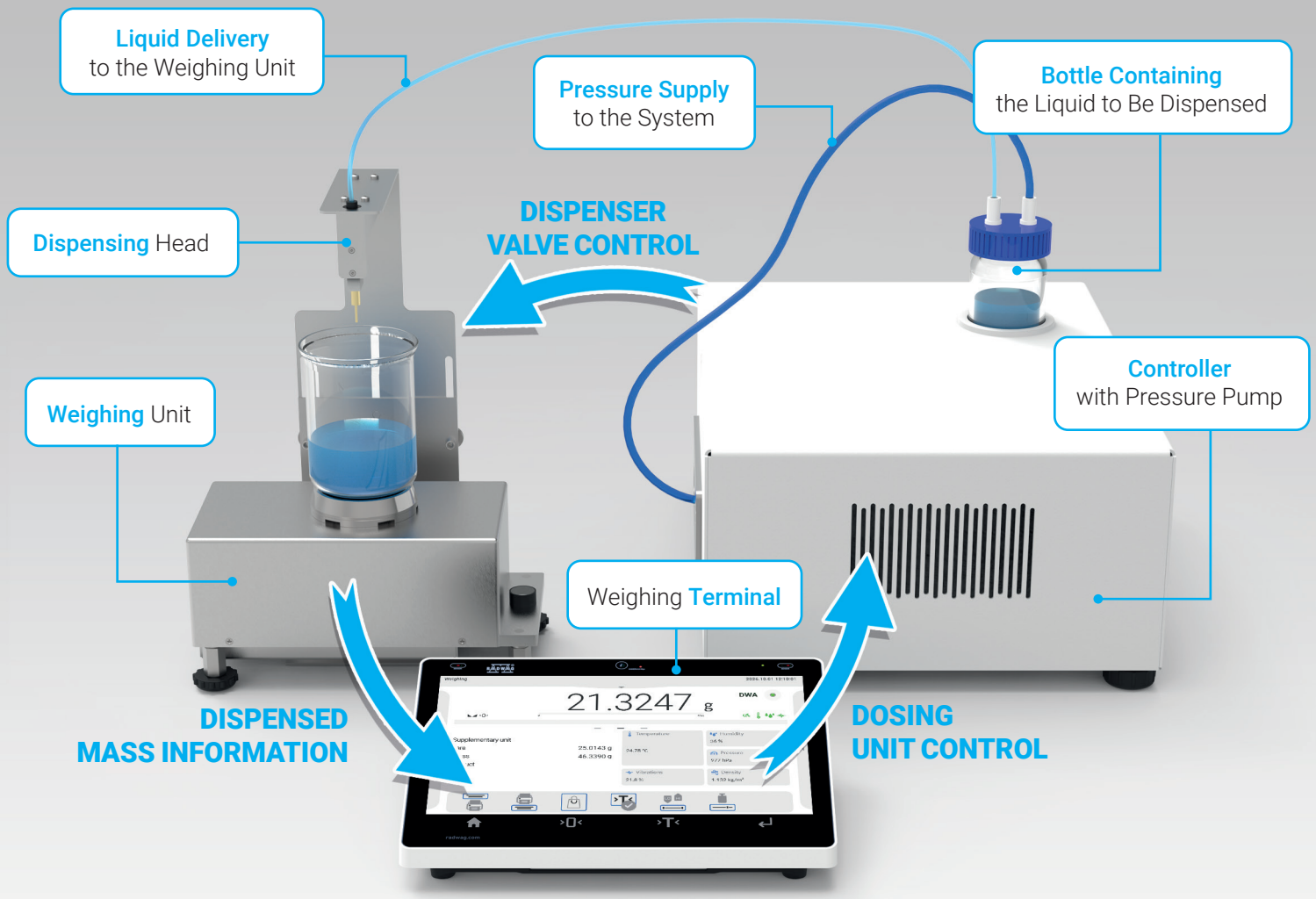
Electronic dosing process
control system ensuring high process repeatability.

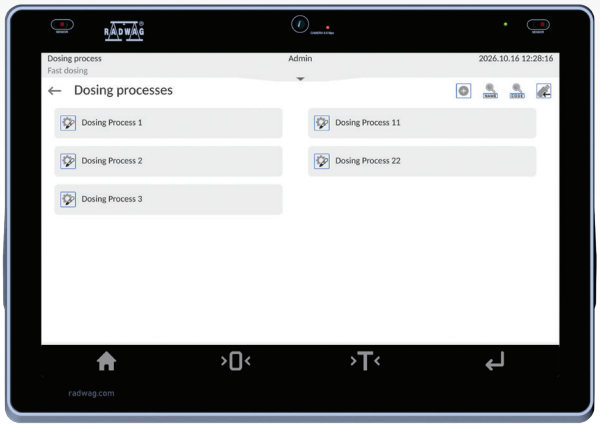


System equipped with two pumps
maintaining constant pressure to ensure the required dosing accuracy and repeatability.



Adjustable dosing head height
to accommodate vessels of different sizes.

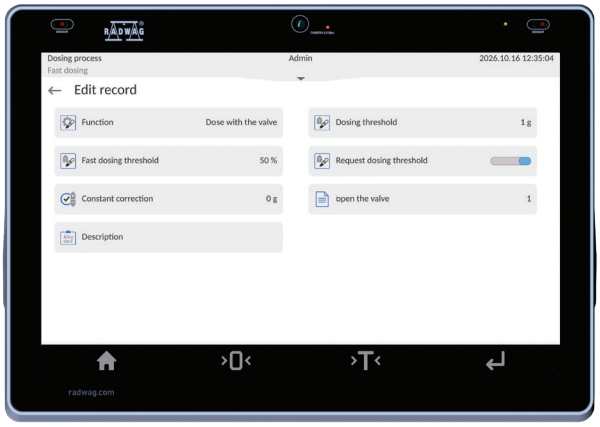




Dosing Process Database



Definition of the Dosing Algorithm



Setting Dosing Thresholds



Automatic Flow Rate Determination

Technical Specifications of Liquid Dosing Systems

Model	Maximum capacity [Max]	Readability [d]	Standard Repeatability [5% Max]	Weighing pan dimensions	Communication interfaces
LDS.2.220.5Y	220 g	0.1 mg	0.1 mg	ø42 mm	RS232, Ethernet TCP/IP (optional: RS485, 2 xIN/2xOUT)
LDS.2.640.5Y	640 g	1 mg	1.5 mg	ø56 mm	RS232, Ethernet TCP/IP (optional: RS485, 2 xIN/2xOUT)
LDS.2.1000.5Y	1000 g	1 mg	1.5 mg	ø56 mm	RS232, Ethernet TCP/IP (optional: RS485, 2 xIN/2xOUT)
LDS.2.6300.5Y	6300 g	10 mg	8 mg	ø100 mm	RS232, Ethernet TCP/IP

Parametry wspólne dla wszystkich modeli
Czas stabilizacji: 2 s; **Adiustacja:** wewnętrzna (automatyczna); **Wyświetlacz:** 10" kolorowy dotykowy; **Interfejsy komunikacyjne termiala:** 2×USB-A, USB-C, HDMI, Ethernet, RS232 Wi-Fi®, Hotspot;

Technical Specifications of Dosing Units

Lowest concentration according automated USP minimum weight (typical value)	8.2 mg with 0.1 mg readability
Maximum Flow Rate (100 mBar)*	0.1160 g/s (7 g/min)
Maximum Flow Rate (450 mBar)*	0.3450 g/s (21 g/min)
Dispense speed (1 g) at 100 mbar*	12 s
Dispense speed (1 g) at 450 mbar*	8 s
Dispense speed (5 g)* at 100 mbar*	48 s
Dispense speed (5 g)* at 450 mbar*	22 s
Dispense speed (10 g)* at 100 mbar*	90 s
Dispense speed (10 g)* at 450 mbar*	40 s
Viscosity range	Low-viscosity solvents (<20 cP), e.g. water, acetonitrile, methanol, ethanol, DMSO
Liquid source bottle	100 ml, 250 ml, 1000 ml bottle with GL45 thread

***Values for distilled water**
Note: Increasing the pressure may adversely affect dosing accuracy.

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to explore our **full product range**