

BL824 Ultra Micro Analytical Balance



The BL824 Ultra Micro Analytical Balances incorporate cutting-edge super monolithic sensor technology, providing unparalleled accuracy, stability, and sensitivity for micro weighing tasks. The horizontal bar design of the sensors ensures a high-speed response. Equipped with a full touchscreen LED readout device, the BL824 is an optimal choice for precise ultra micro weight measurements.

FEATURES

- Readability: Up to 0.1 μg
- Capacity: Options of 2.1 g, 5.1 g, and 31 g
- Automatic Functions: Self-calibration, door opening/closing, and electrostatic removal
- Compliance: Meets 21 CFR Part 11 standards
- Connectivity: RS232 and USB Type-C for direct transfer of Excel documents to PC
- Display: Full touchscreen LED

APPLICATIONS

- Sample and standard preparation
- Formulation and differential weighing
- Density testing and interval weighing
- Pipette routine tests and elemental analysis
- High-performance liquid chromatography (HPLC)
- Gas chromatography-mass spectrometry (GC-MS)

SPECIFICATIONS

Part #	XE2.7S	XE5.6S	XE31.6S
Reading	0.1 μg	1 μg	1 μg
Maximum Capacity	2.1 g	5.1 g	31 g
Repeatability @5% load	0.3 μg	2.5 μg	2.5 μg
Repeatability @100% load	0.5 μg	4 μg	5 μg
Linearity	0.5 μg	2.5 μg	5 μg
Off-center Deviation (Accord to OIML R76)	0.5 μg @1 g	2.5 μg @2 g	5 μg @20 g
Sensitivity Drift (10°C -30°C)	5 ppm/K	5 ppm/K	5 ppm/K
Accuracy (2014/31/EU)	I	I	I
Interval (2014/31/EU)	1 μg	10 μg	10 μg
Minimum Load (2014/31/EU)	0.1 mg	1 mg	1 mg
Minimum Initial Weighing (USP)	1.3 mg	1.3 mg	1.3 mg
Typical Stable Time (USP)	8 s	6 s	8 s
Typical Measure Time (USP)	12 s	12 s	12 s
External Calibration Weight	2 g	5 g	20 g
Calibration Weight Accuracy	E1	E1	E1
Weighing Pan Size	Φ 30 mm	Φ 30 mm	Φ 30 mm

- Operating Temperature: 18°C -23°C
- Operating Humidity: 50% RH - 75% RH
- Warm-up Temperature Fluctuation: \leq 1°C per hour
- Power Supply: 100-240V AC, 50/60 Hz
- Net Weight: 4.7 kg
- Dimensions (LWH): 90 mm x 295 mm x 150 mm

SCOPE OF DELIVERY

- BL824 Ultra Micro Analytical Balance
- E1 class single calibration weight

OPTIONAL ACCESSORIES AND SERVICES

- ISO17025 Calibration Certificate (PN: CAL-824)
- Draft shield
- Gesture sensor
- Ionizer
- Automatic open and close door

ORDERING MODEL NUMBERS

- BL824-XE2.7S
- BL824-XE5.6S
- BL824-XE31.6S