



5-Place Balance™ for XL100/200

Improved Readability

For labs requiring increased accuracy for volume detection applications, the XL100 and XL200 Vial Handlers can be equipped with a Mettler Toledo WXS weighing module.

Shown Integrated with the XL100 Vial Handler



Included Features: 1. External Ionizer 2. Internal Ionizer
3. External Terminal Display 4. Vibration Mats

Benefits

- Designed to integrate with other robotic functions: re-array, barcode decoding, liquid handling and decapping/capping
 - Ionizer improves the balance readability when measuring low volume samples by neutralizing the electrostatic attraction (ESA) between test tube and balance and preventing electrostatic buildup



Features

- Automated vial weighing with the Mettler Toledo WXS weighing module with external display
- 0.01mg readability
- XL Series Work List Manager software includes a Tare/Gross Weighing Mode for quick job set-up and pre-formatted output files
- External XL Ionizer blower reduces high voltage electrostatic charges on the XL Series' deck, balance, tube racks and sample tubes to +/- 22V at one foot from unit (20 ft³ per minute airflow)
- Industrial grade ionizer electronics
- No calibration required
- Internal ionizer with static buttons
- Vibration mats

5-Place Automated Balance with XL Series Vial Handler



5-Place Balance™ for XL100/200

Parameters			205DU
Nominal			
	Maximum Capacity	nom.	220 g
	Readability	nom.	0.1 mg
	Maximum capacity, fine range	nom.	111 g
	Readability, fine range	nom.	0.01 mg
	Zero setting range (legal-for-trade versions)	nom.	20 g
Measurement properties – properties apply to environment conditions			
	Specifications temperature		10...30 °C
	Specifications humidity		20...80 %rH
	Specification pressure		---
Limit values			
	Repeatability (measured at)		0.07 mg (200g)
	Repeatability at low load (measured at)		---
	Repeatability, fine range (measured at)		0.03 mg (100g)
	Repeatability at low load, fine range (measured at)		0.02 mg (10g)
	Linearity		0.2 mg
	Eccentric load deviation as per OILM R76 (measured at)		0.3 mg (100g)
	Sensitivity offset		$3 \times 10^{-6} \cdot Rnt$
	Sensitivity temperature drift ¹⁾		$1.5 \times 10^{-6}/^{\circ}C \cdot Rnt$
	Sensitivity stability ²⁾		$2.5 \times 10^{-6}/a \cdot Rnt$
Typical Values			
	Repeatability ¹⁾	typ.	$0.04mg + 1.2 \times 10^{-7} \cdot Rgr$
	Repeatability, fine range ¹⁾	typ.	$0.025mg + 5 \times 10^{-8} \cdot Rgr$
	Differential linearity deviation	typ.	$\sqrt{2} \times 10^{-11} g \cdot Rnt$
	Differential eccentric load deviation	typ.	$8 \times 10^{-7} \cdot Rnt$
	Sensitivity offset ²⁾	typ.	$7 \times 10^{-7} \cdot Rnt$
	Minimum weight (according to USP) ^{1) 3)}	typ.	$120mg + 3.6 \times 10^{-4} \cdot Rgr$
	Minimum weight (according to USP), fine range ^{1) 3)}	typ.	$75mg + 1.5 \times 10^{-4} \cdot Rgr$
	Minimum weight (@ U=1%, 2 sd) ¹⁾	typ.	$8mg + 2.4 \times 10^{-5} \cdot Rgr$
	Minimum weight (@ U=1%, 2 sd), fine range ^{1) 3)}	typ.	$5mg + 1 \times 10^{-5} \cdot Rgr$

Legend

Rgr = gross weight

Rnt = net weight (of sample)

sd = standard deviation

a = year (annum)

¹⁾ Temperature range 10 ... 30 °C

²⁾ Stability of sensitivity as from first installation with FACT

³⁾ The MinWeigh weight can be improved using the following measures:

- Select suitable weighing parameters

- Select a better location
- Use smaller tare containers

⁴⁾ The settling time is the time between when the object to be weighed is placed on the scale and a stable signal is transmitted – this assumes optimal ambient conditions (including appropriate draft shield) and optimal parameter settings.

Specifications:	Component	Electrical	Dimensions	Weight
	External Ionizer	AC/DC universal power supply for use with 120/240 VAC 50/60 Hz	5" w x 4.5" d x 13.5" h 13cm x 11cm x 34cm	6.1 lbs (2.8 kg)