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## Mettler UMT2

## **Technical specifications of MT/UMT Balances**

Modell	UMT2	UMT5 Comparator	MT 5
Readability Weighing	0.1 μg	0.1 µg	1 μg
capacity Taring range (by	2100 mg	5100 mg	5100 mg
subtraction)	02100 mg	05100 mg	05100 mg
Reproducibility (s) 02g	0.25 μg	0.25 μg	0.8 µg
Reproducibility (s) 25g		0.4 µg	0.9 µg
Linearity	±1 µg	$\pm 4 \ \mu g$	$\pm 4 \ \mu g$
Linearity referred to 500	±0.5 µg	±2 µg	±2 μg
mg			
Stabilization time (typical)	10, 16, 24 s	15, 20, 30 s	9, 12, 16 s
	Corresponding to setting		
	of vibration adapter.		
Built-in calibration weights	2 x 1 g	2 x 2.5 g	2 x 2.5 g
	Measured to $\pm 5 \ \mu g$ at an	Measured to $\pm 5 \ \mu g$ at an	Measured to $\pm 5 \ \mu g$
	air density of 1200 mg/l	air density of 1200 mg/l	at an air density of
	on virtual mass with	on virtual mass with	1200 mg/l on virtual
	density 8.0 g/cm3.	density 8.0 g/cm3.	mass with density
			8.0 g/cm3.
Calibration FACT	Fully automatic motorized	Fully automatic	Fully automatic
	self-calibration with two	motorized self-	motorized self-
	built-in weights (manual	calibration with two	calibration with two
	triggering also possible).	built-in weights	built-in weights
	Test possibility to check	(manual triggering also	(manual triggering
	the calibration.	possible). Test	also possible). Test
		possibility to check the	possibility to check
	-	calibration.	the calibration.
Calibration with external	2 g	5 g	5 g
weight:			
Display with METTLER	LCD (liquid crystal)	LCD (liquid crystal)	LCD (liquid crystal)
Deltatrac			
Display sequence	0.20.4 s variable	0.20.4 s variable	0.20.4 s variable
Sensitivity drift (540°C)	Maximum deviation with	Maximum deviation	Maximum deviation
	automatic self-calibration	with automatic self-	with automatic self-
	$\pm 0.00015\%$ , (with	calibration $\pm 0.00015\%$ ,	calibration
	automatic self-calibration	(with automatic self-	$\pm 0.00015\%$ , (with
	switched off) 1 ppm/°C.	calibration switched	automatic self-
		off) I ppm/°C.	calibration switched
<b>.</b>			off) I ppm/°C.
Linearization	Automatic self-	Automatic self-	Automatic self-
	linearization of the	linearization of the	linearization of the

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	weighing curve	weighing curve	weighing curve
	(simultaneously with	(simultaneously with	(simultaneously with
	motorized calibration	motorized calibration	motorized
	FACT).	FACT).	calibration FACT).
Data interface	CL and RS232C,	CL and RS232C,	CL and RS232C,
	bidirectional, built in as	bidirectional, built in as	bidirectional, built in
	standard, all lines	standard, all lines	as standard, all lines
	galvanically separated.	galvanically separated.	galvanically
			separated.
Glass draft shield	Automatic motorized	Automatic motorized	Automatic
	opening or at a keystroke.	opening or at a	motorized opening
		keystroke.	or at a keystroke.
AC adapter (to national	Voltage 115 V or 230 V,	Voltage 115 V or 230	Voltage 115 V or
codes)	admissible voltage	V, admissible voltage	230 V, admissible
	fluctuations: +1520%.	fluctuations: +15	voltage fluctuations:
		20%.	+1520%.
	Frequency: 5060 Hz;		
	power consumption	Frequency: 5060 Hz;	Frequency: 5060
	15.5W max.	power consumption	Hz; power
		15.5W max.	consumption 15.5W
			max.
Admissible ambient	Temperature: 540 °C;	Temperature: 540 °C;	Temperature: 540
conditions	relative humidity:	relative humidity:	°C; relative
	2585% (non-	2585% (non-	humidity: 2585%
	condensing). Height	condensing). Height	(non-condensing).
	above sea level: -	above sea level: -	Height above sea
	500+6000 m.	500+6000 m.	level: -500+6000
			m.

Weighing pan with feedthrough	ø 16 mm	ø 16 mm	ø 27 mm
for below-the-balance weighing	Surface-treated	Surface-treated aluminum	Surface-treated
	aluminum		aluminum
Measures (W x L x H)	Cell 128 x 287 x	Cell 128 x 287 x 113,	Cell 128 x 287 x
AC adapter (W x L x H)	113, evaluation	evaluation unit 202 x 294 x	113, evaluation unit
Weight	unit 202 x 294 x	92 mm	202 x 294 x 92 mm
	92 mm		
		115 x 140 x 53 mm	115 x 140 x 53 mm
	115 x 140 x 53		
	mm	Cell 2.4 kg, evaluation unit	Cell 2.4 kg,
		2.5 kg, AC adapter 1.2 kg	evaluation unit 2.5
	Cell 2.4 kg,		kg, AC adapter 1.2
	evaluation unit		kg
	2.5 kg, AC		-
	adapter 1.2 kg		



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