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Mettler UMT2

Technical specifications of MT/UMT Balances

| Modell | UMT2 | UMT5 Comparator | MT 5 |
|---|--|--|--|
| Readability Weighing capacity Taring range (by subtraction) | 0.1 µg 2100 mg 0...2100 mg | 0.1 µg 5100 mg 0...5100 mg | 1 µg 5100 mg 0...5100 mg |
| Reproducibility (s) 0...2g Reproducibility (s) 2...5g | 0.25 µg | 0.25 µg 0.4 µg | 0.8 µg 0.9 µg |
| Linearity Linearity referred to 500 mg | ±1 µg ±0.5 µg | ±4 µg ±2 µg | ±4 µg ±2 µg |
| Stabilization time (typical) | 10, 16, 24 s Corresponding to setting of vibration adapter. | 15, 20, 30 s | 9, 12, 16 s |
| Built-in calibration weights | 2 x 1 g Measured to ±5 µg at an air density of 1200 mg/l on virtual mass with density 8.0 g/cm ³ . | 2 x 2.5 g Measured to ±5 µg at an air density of 1200 mg/l on virtual mass with density 8.0 g/cm ³ . | 2 x 2.5 g Measured to ±5 µg at an air density of 1200 mg/l on virtual mass with density 8.0 g/cm ³ . |
| Calibration FACT | Fully automatic motorized self-calibration with two built-in weights (manual triggering also possible). Test possibility to check the calibration. | Fully automatic motorized self-calibration with two built-in weights (manual triggering also possible). Test possibility to check the calibration. | Fully automatic motorized self-calibration with two built-in weights (manual triggering also possible). Test possibility to check the calibration. |
| Calibration with external weight: | 2 g | 5 g | 5 g |
| Display with METTLER Deltatrac | LCD (liquid crystal) | LCD (liquid crystal) | LCD (liquid crystal) |
| Display sequence | 0.2...0.4 s variable | 0.2...0.4 s variable | 0.2...0.4 s variable |
| Sensitivity drift (5...40°C) | Maximum deviation with automatic self-calibration ±0.00015%, (with automatic self-calibration switched off) 1 ppm/°C. | Maximum deviation with automatic self-calibration ±0.00015%, (with automatic self-calibration switched off) 1 ppm/°C. | Maximum deviation with automatic self-calibration ±0.00015%, (with automatic self-calibration switched off) 1 ppm/°C. |
| Linearization | Automatic self-linearization of the | Automatic self-linearization of the | Automatic self-linearization of the |

| | | | |
|--------------------------------|---|---|---|
| | weighing curve (simultaneously with motorized calibration FACT). | weighing curve (simultaneously with motorized calibration FACT). | weighing curve (simultaneously with motorized calibration FACT). |
| Data interface | CL and RS232C, bidirectional, built in as standard, all lines galvanically separated. | CL and RS232C, bidirectional, built in as standard, all lines galvanically separated. | CL and RS232C, bidirectional, built in as standard, all lines galvanically separated. |
| Glass draft shield | Automatic motorized opening or at a keystroke. | Automatic motorized opening or at a keystroke. | Automatic motorized opening or at a keystroke. |
| AC adapter (to national codes) | Voltage 115 V or 230 V, admissible voltage fluctuations: +15...-20%. Frequency: 50...60 Hz; power consumption 15.5W max. | Voltage 115 V or 230 V, admissible voltage fluctuations: +15...-20%. Frequency: 50...60 Hz; power consumption 15.5W max. | Voltage 115 V or 230 V, admissible voltage fluctuations: +15...-20%. Frequency: 50...60 Hz; power consumption 15.5W max. |
| Admissible ambient conditions | Temperature: 5...40 °C; relative humidity: 25...85% (non-condensing). Height above sea level: -500...+6000 m. | Temperature: 5...40 °C; relative humidity: 25...85% (non-condensing). Height above sea level: -500...+6000 m. | Temperature: 5...40 °C; relative humidity: 25...85% (non-condensing). Height above sea level: -500...+6000 m. |

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



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