Multichannel Pipette Calibration
Compliant to ISO 8655

ISO 8655 Down to 0.5 µL

With readability of 10 µg, the XPR105MCP fulfills the requirements of ISO 8655 for multichannel micropipettes dispensing volumes ≥0.5 µL. The outstanding weighing performance ensures accurate calibration results, even for extremely small volumes.

Fast Calibration and Verification

Calibrate up to 12 pipette channels in one dispense. The unique and innovative XPR105MCP tests each pipette channel individually on the same load cell to ensure equal measurement performance. Results are reported in under one minute.

Designed for Ease-Of-Use

With its compact footprint, the XPR105MCP can be operated comfortably in tight bench spaces. Its simple construction allows convenient access for calibrations and cleaning. The system can operate standalone or connect to a second XPR105MCP for increased throughput.

Traceable to ISO Standards

The Calibry PC software supports you with ISO 8655 and 21 CFR part 11 compliance. Its simple user interface guides you through pipette calibration and testing procedures. Calibry stores all results in a secure database, informs you when upcoming tests are due, and can generate customized reports.
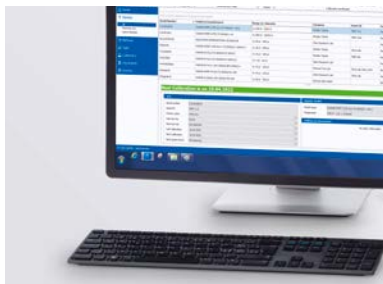
XPR105MCP Calibration Balance
High-Speed Multichannel Pipette Testing

The XPR105MCP is a sophisticated, high-speed solution for ISO calibrations and routine performance verifications of multichannel pipettes with up to 12 channels. With a readability of 10 µg and repeatability of 15 µg, the system fulfills ISO 8655 requirements for multichannel pipettes with dispensing volumes as small as 0.5 µL.

The system has been carefully designed with a single load cell to ensure fast and equal performance for all channels. The 360 measurements needed for a full calibration (12 channels, 3×10 repetitions) can be completed within 25 minutes. The load cell is protected from any leaks and spills to ensure lifelong performance.

The supplementary Calibry PC software guides you through pipette calibration and testing procedures. It ensures accurate and traceable pipette calibrations according to ISO 8655 and 21 CFR part 11 requirements.

METTLER TOLEDO

Software and Hardware Features for ISO 8655 Multichannel Pipette Calibration

Step-By-Step Testing Guidance
The Calibry PC software guides users through an ISO 8655 compliant calibration, ensuring all steps and calculations are completed correctly, and required tolerances are met.

Data Management and Compliance
User management, report release, change history, and audit trails are all available within Calibry to fully support you with regulatory compliance and 21 CFR part 11.

Automated Traceability and Reporting
Calibry automatically saves all calibration data in a secure SQL database and can generate ISO 8655 compliant reports. All data can also be exported.

Instantaneous Pipette Identification
Identify your pipette in an instant with the optional RFID reader connected to Calibry. Each pipette is easily tracked, ensuring that the correct procedures are used for testing and calibration.

Efficient Balance Testing
An accurate balance means accurate pipettes. The CarePac® weight set with OIML/ASTM 5 g and 100 g weights is perfect for routine performance verifications of an XPR105MCP calibration balance.

Balance Status at a Glance
The automatic StatusLight™ uses color to let you see at a glance if the balance is ready for use (green), if a balance routine test or calibration is due (yellow), or if there is an issue and the balance is blocked (red).

Technical Specifications	XPR105MCP
Capacity/Readability – Fine range	41 g / 0.01 mg
Capacity/Readability – Coarse range	120 g / 0.1 mg
Repeatability system (limit)	0.015 mg
Typical repeatability system	0.009 mg
Waste container volume	17 mL 1,700 dispenses of 10 µL
Evaporation trap volume (built-in)	20 mL
Typical settling time – 0.1 mg	4 s
Typical settling time – 0.01 mg	6.5 s
Pipettes supported	4–12 channels
Pipette volume range supported	0.5–1,000 µL
Norms supported	ISO 8655 / JJG 646
Typical process time – 12 channels, 200 µL, 3×10 repetitions	25 min*
Typical process time – 8 channels, 10 µL, 2×4 repetitions	7 min*

*depending on the room's environmental conditions and technician experience

System Features	
Connectivity	4×USB, 1×RJ45
Dimensions (W×D×H)	195×486×205 mm
Weight	12.5 kg

Ordering Information	Material No.
XPR105MCP Calibration Balance: XPR105DUHR and MCP module	30786916 and 30785286
Software: Calibry V6.2 or higher - Calibry Single Workstation - Calibry Network	 11138419 11138420
Calibry Validation Handbook	11780959
Pipette calibration table	11138042
CarePac test weight set with certificate (5 g / 100 g)	30550615
Water reservoir for pipetting (25 pcs)	17007886
Suction pump with tubes, power supply	30676828, 30388323
Terminal extension cable (4.5 m)	30300920

www.mt.com/XPR105MCP

For more information