

Pipette Calibration Workstation



MCP single-channel and multi-channel pipette calibration systems

Extremely fast

Highly compact

Easy to use

Increased productivity
Calibrate up to 16 times faster

METTLER TOLEDO

Multi-channel pipette calibration

The challenge

How much time do you spend checking your multi-channel pipettes? Do all your pipettes leave your company in perfect condition? Are you sure that every channel in multi-channel pipettes complies with the guidelines and specifications in day-to-day use?



Testing and calibrating multi-channel pipettes according to ISO 8655 is time-consuming and monotonous. With an analytical balance this can take up to 4 hours. Even a quick check with just four measurements per channel takes hours. As a consequence, often only individual channels of multi-channel pipettes are checked, which can lead to errors. This is not in compliance with the ISO guidelines and can lead to problems and complaints.



... our solution:

The new MCP multi-channel pipette calibration workstation from METTLER TOLEDO performs this task in an easy and extremely cost-effective way. Highly compact and unmatched in terms of speed, it will calibrate 8- and 12-channel pipettes according to ISO 8655 in just 14 minutes. This boosts your productivity, saves significant amounts of money and every individual channel is checked - for 100% reliability.

The MCP workstation

A perfect system

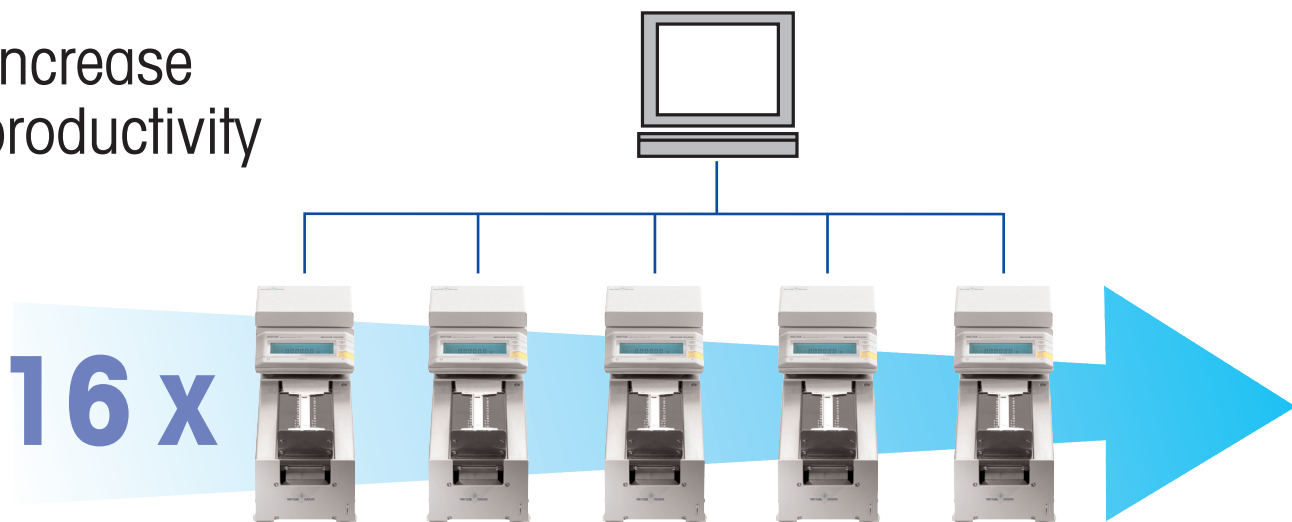
The MCP workstation is designed for various applications. In calibration labs for full calibration of pipettes according to ISO guidelines, manufacturer tolerances and customer specifications.

Pipette manufacturers can be certain that their customers receive only the best quality pipettes in perfect condition. Thanks to its modular design, up to five MCP workstations can be connected to one system. The MCP4 and MCP5 models are ideal for fast, high throughput pipette calibration. And the MCP2

and MCP3 models are perfect for checking just a few pipettes. The system grows with your needs, which protects your investment and guarantees an optimum return on investment (ROI).

... to increase your productivity

Up to faster with MCP



ISO Test 10 measurements, 12 channels, 3 volumes (10%, 50%, 100%) 360 measurements

Return on investment	Conventional balance	MCP2	MCP3	MCP4	MCP5
Calibration time per pipette (min.)	300	30	21	17	14
Number of calibrations per day	1.6	14.4	20.6	25.4	30.9
Costs per calibration (EUR)	75.00	25.00	17.50	14.17	11.67
Payback of investment after number of calibrations		459	542	626	688
Payback of investment after number of days		32	26	25	22

Assumptions: Working time 36 hours per week, 2160 minutes per week, hourly rate EUR 50, EUR 0.8333 per minute

The MCP system

The complete solution for all pipettes

Our competence - your benefit. Fully equipped for best ergonomics and maximum speed. Functional and ergonomic benches for 2 or 5 MCPs have been developed for calibration in QC labs, to guarantee fast working without fatigue.

- All channels fully calibrated
- Compact and ergonomic
- Vibration-free since weighing table is mechanically decoupled
- Built-in exhaust pump



Multi-channel pipettes are calibrated easily, quickly and cost-effectively with the attached transport carriage.



Single-channel pipettes simply replace the transport carriage with the evaporation trap and calibrate your single-channel pipettes as well.



The MCP5 high-throughput system

The MCP4 and MCP5 workstations are ideal for high-throughput pipette calibration. When you have a growing number of pipettes, the system grows with your needs, which protects your capital spending and guarantees an optimum return on investment (ROI).

Highly compact

Size of an analytical balance



Easy to use

Automatic evaluation of all calibrations

Extremely fast

Calibrates 12 channels according to ISO 8655 in just 14 minutes



Highly flexible

For single-channel and multi-channel pipettes

Very cost-effective

Up to 16 x faster than with a conventional balance



MCP calibration system

MCP workstation

Technical data



Technical data MCP workstation

Number of channels	Up to 12
Container volume	16 ml with fill level warning
Evaporation trap	Built-in
Readability	0.01 mg
Maximum capacity	101 g
Repeatability (s)	0.02 mg
Standard measurement uncertainty	0.02 mg
Settling time (typ.)	5 s
Dimensions (L x W x H)	510 x 177 x 165 mm
Weight	8 kg, 15 kg with carrying case

Space requirements

Number of MCP workstations	2	3	4	5
Bench space needed (width) mm	400	600	800	1000

Standard equipment: transport case, four channel pump to exhaust the weighing vessel, reservoir for picking up the distilled water, all necessary hubs and cables.

Calibration system

Technical data



Space requirements	MCP2	MCP5
Length x Width x Height (mm)	820 x 820 x 784 (+/- 40)	1527 x 1572 x 784 (+/- 40)
Exhaust pump	4 channel	4 channel
Calibration time according to ISO 8655	30 min.	14 min.
Calibration fluid capacity	32 ml (16 ml per channel)	80 ml (16 ml per channel)

MCP accessories

4 channel exhaust pump	11138252
Glass tubes (set of 5)	11138253
One channel kit with large evaporation trap (100 ml)	11138008
One channel kit with 20 ml evaporation trap	11138006
Calibration set*	11138254

* Weight 20 g E2 with certificate, weighing pan, draught shield, tweezers



www.mt.com/pipcal

For more information

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