

# PM 4Y.KB Mass Comparator

Class-leading manual mass comparator



PM 4Y.KB



Specially designed suitcase for PM 4Y.KB mass comparator



Positioners on an open-workweighing pan

## Functions

- 
Mass comparator
- 
Ambient conditions measurement
- 
Proximity sensors
- 
Replaceable units
- 
Multilingual menu

## Features

### Effective and Excellent Measurement

The PM 4Y.KB series represents the standard-class manual mass comparators. The comparator allows to compare weights of class F2 and lower of mass ranging between 1 kg and 50 kg.

### Maximum Comfort of Operation

The PM 4Y.KB is comprised of two parts. One featuring an electromagnetic module, the other a precise mechanical measuring system. To ensure required weighing accuracy, the mass comparator uses a semi-automatic system of adjustment carried out using an external adjustment weight. The weighing pan is made of aluminium and features positioners for centring the mass standard.

### Dedicated Software

Specially designed RMCS computer software enables comprehensive realisation of calibration procedures in laboratory. The system manages the whole calibration process, starting from the moment the order is placed, through procedure performance, to the moment of issuing the calibration certificate.

## Technical Specifications

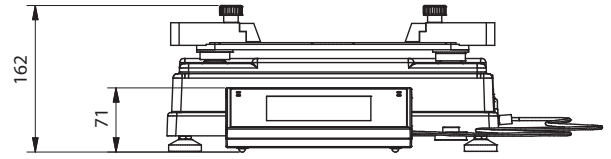
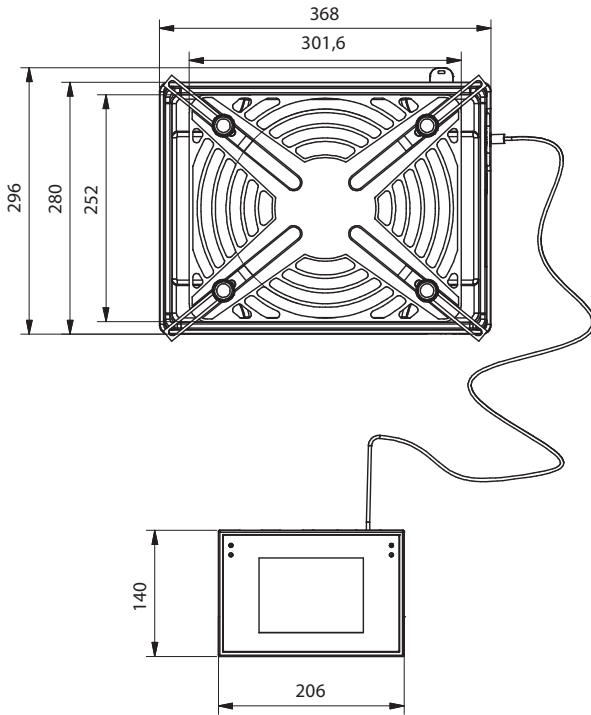
	PM 25.4Y.KB	PM 50.4Y.KB
OIML calibration range E1	—	—
OIML calibration range E2	—	—
OIML calibration range F1	—	—
OIML calibration range F2	5 kg ÷ 20 kg	50 kg
OIML calibration range M1	2 kg ÷ 20 kg	10 kg ÷ 50 kg
OIML calibration range M2	1 kg ÷ 20 kg	10 kg ÷ 50 kg
Maximum capacity [Max]	25.5 kg	51 kg
Readability [d]	10 mg	100 mg
Repeatability for nominal load*	15 mg (20 kg)	100 mg (50 kg)
Repeatability for small load*	8 mg (1 kg)	70 mg (10 kg)
Stabilization time	5 s	3 s
Adjustment	external	external
Electric compensation range	0 g ÷ 25.5 kg	0 g ÷ 51 g
Eccentricity (for test weight)	1 d / 2 mm (20 kg) / 1 d / 5 mm (2 kg)	1 d / 2 mm (50 kg) / 1 d / 5 mm (10 kg)
Display	5.7" colour resistive touch screen	5.7" colour resistive touch screen
Keypad	8 keys	8 keys
Ingress protection - indicator	IP 43	IP 43
Touch-free operation	2 programmable sensors	2 programmable sensors
USB-A	2	2
Ethernet	10 / 100 Mbit	10 / 100 Mbit
RS 232	2	2
Wireless Connection	802.11 b/g/n	802.11 b/g/n
IN/OUT	4 × IN, 4 × OUT	4 × IN, 4 × OUT
Power supply	110 ÷ 230 V AC / 50 ÷ 60 Hz	110 ÷ 230 V AC / 50 ÷ 60 Hz
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C
Operating temperature change rate	±2°C / 12 h	±2°C / 12 h
Relative humidity variations	±10% / 4 h	±10% / 4 h
Relative humidity***	30 ÷ 70%	30 ÷ 70%
Transport and storage temperature	-20 ÷ +50 °C	-20 ÷ +50 °C
Weighing pan dimensions	302 × 252 mm	302 × 252 mm
Mass comparator dimensions**	368 × 296 × 162 mm	368 × 296 × 162 mm
Indicator dimensions**	206 × 140 × 70 mm	206 × 140 × 70 mm
Mass comparator net weight	10 kg	10 kg
Mass comparator gross weight	12.2 kg	12.2 kg
Mass comparator packaging dimensions**	520 × 520 × 280 mm	520 × 520 × 280 mm

\* repeatability is expressed as a standard deviation determined for 6 ABBA cycles

\*\* dimensions: length x width x depth

\*\*\* non-condensing conditions

## Dimensions



PM 4Y.KB

## Accessories

### Weighing Tables

- granite anti-vibration table
- anti-vibration table for APP balances and mass comparators

### Ambient Conditions

- THB-S or THB-P sensor

### Peripheral Devices

- Epson dot matrix printer
- barcode scanner
- WD-5/3Y LCD display (backlit)

### Cables, Converters

- RS-232 – P0108 computer cable
- RS-232 – P0167 computer cable
- RS-232 – P0151 Epson printer cable

### Electrical Accessories

- power supply with ZR-02 battery

### Anti-Draft Chambers

- WAY-AK-SK-00 anti-draft chamber
- WAY-AK5-SK-00 anti-draft chamber

## Dedicated Software

### RMCS System

- performance of calibration procedures in a laboratory from the moment the order is placed, to the moment of issuing a calibration certificate
- compatible with THB sensors enabling recording ambient conditions
- export of report results to various files
- archiving calibration protocols, orders, certificates and ambient conditions

### RADWAG Remote Desktop

- remote control of the mass comparator using computer, telephone or tablet
- sending text messages
- version for Windows 10 and Android systems

### R-LAB

- collecting measurements
- carrying out statistical analysis of measurements
- customized graphs and reports

### Parameters Editor

- remote change of parameters
- remote on-line preview of the display
- displaying current mass indication
- software update
- file loading, editing and saving parameters to a file
- import and export of parameters
- interfaces: RS232, Ethernet and Wireless Connection
- quick and easy edition of balance parameters using computer