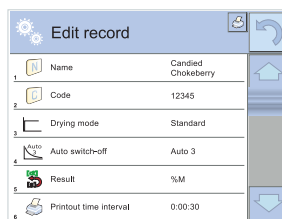
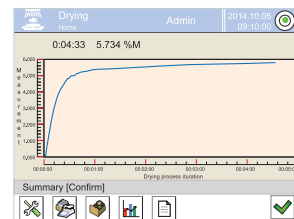


# PMV 50 Microwave Moisture Analyzer

Advanced solution for measurement of samples of high moisture content



Drying programs and finish modes database



Drying process visualization



Chamber for moisture content determination of special design



5.7" colour touch screen assuring intuitive operation

## Features

- Moisture content analysis
- Drying modes
- GLP procedures
- Replaceable unit
- Microwave drying
- Dry mass determination
- Proximity sensors
- Drying process visualization
- Multilingual menu
- Samples drying

## Characteristics

### Microwaves in Moisture Content Measurement

Samples humidity measurement performed using an innovative system, operation of which system is based on microwaves, requires much less time for drying of weighed materials. This solution is an excellent choice for measuring products containing significant amount of moisture, i.e. dairy products, meat, fish, syrups, creams, liquid resin.

### Ultra-Short Drying Time

The PMV 50 moisture analyzer enables to significantly reduce drying time. Depending on the type and mass of a sample, the process takes 1 to 10 minutes whereas drying using the traditional halogen moisture analyzer takes 5 to 40 minutes.

### Uniform Heating of the Sample

In contrast to traditional moisture analyzers which heat samples on the side of the heating element, the PMV 50 moisture analyzer heats the whole sample's volume due to the use of  $\varnothing$  90 glass fibre filter.

### Temperature Sensor

The PMV 50 microwave moisture analyzer is equipped with a temperature sensor and enables to monitor device power in order to prevent exceeding the boiling point during the process. A preset microwave power is displayed on the indicator throughout the drying procedure.

### Complex Databases

Measuring processes are supported by complex databases with numerous data management options. Expanded 32 GB memory enables saving and storing advanced reports and time and statistical graphs.

### Verification of Operation

When purchasing the PMV 50 moisture analyzer a sample of sodium chloride 10 is provided by the manufacturer.

## Technical Specifications

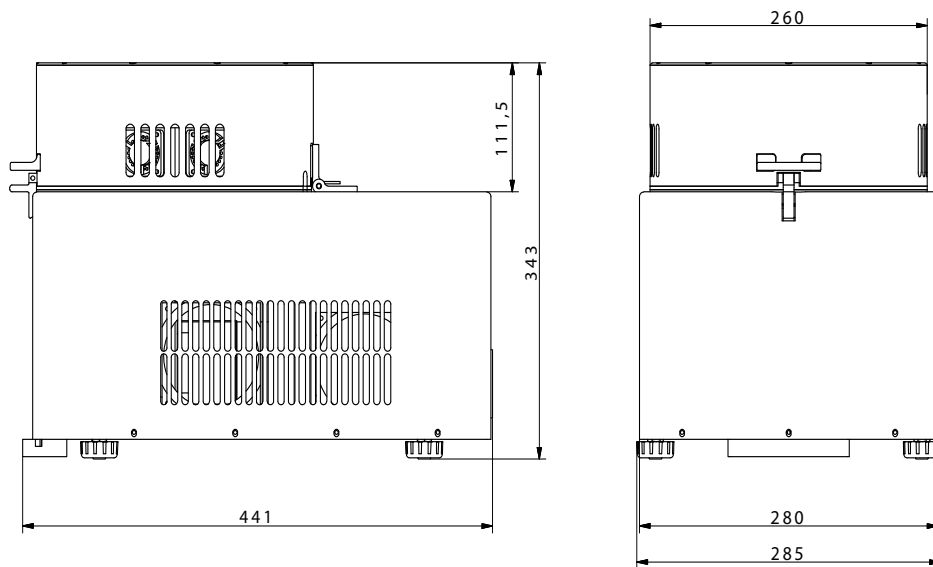
	<b>PMV 50</b>
<b>Maximum capacity [Max]</b>	50 g
<b>Readability [d]</b>	0.1 mg
<b>Tare range</b>	-50 g
<b>Maximum sample weight</b>	50 g
<b>Moisture content range</b>	8 – 100%
<b>Moisture content readability</b>	0.05%
<b>Moisture content repeatability</b>	0.05% (ca. 1 g sample)
<b>Adjustment</b>	external
<b>Display</b>	5.7" colour, resistive touch screen
<b>Keypad</b>	8 keys
<b>Heating module</b>	microwave radiation emitter
<b>Databases</b>	10
<b>Finish mode</b>	manual, automatic, time-defined, user-defined
<b>Touch-free operation</b>	2 programmable proximity sensors
<b>Additional functions</b>	sample traceability, drying process graph
<b>USB-A</b>	2
<b>RS 232</b>	1
<b>Wi-Fi®</b>	802.11 b/g/n
<b>Ethernet</b>	10 / 100 MBit
<b>IN/OUT</b>	4 × IN, 4 × OUT
<b>Power supply</b>	230 V 50Hz AC
<b>Power consumption</b>	max 800 W (during drying)
<b>Heating module power</b>	max 800 W
<b>Operating temperature</b>	+10 ÷ +40 °C
<b>Atmospheric humidity*</b>	40 ÷ 80%
<b>Transport and storage temperature</b>	-20 ÷ +50 °C
<b>Sample holder dimensions</b>	ø 90 mm glass fibre filter
<b>Weighing device dimensions</b>	430 × 305 × 280 mm
<b>Net weight</b>	20 kg
<b>Gross weight</b>	25 kg
<b>Packaging dimensions</b>	400 × 400 × 700 mm

\* non-condensing conditions

Wi-Fi® is a registered trademark of Wi-Fi® Alliance.

## Dimensions

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## Accessories

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### Weighing Tables

- antivibration tables for laboratory balances

### Special Purpose Weighing

- water vapour permeability determination set

### Ambient Conditions

GT105K-12/Z control thermometer

### Peripheral Devices

- dot matrix Epson printer
- barcode scanners

### Consumables

- disposable pans

### Cables, Converters

- P0108: RS 232 cable (balance-computer)
- P0167: RS 232 cable (balance-computer)
- P0151: RS 232 cable (balance - Epson printer)

## Dedicated Software

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### R-LAB

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

### E2R Moisture Analyzer

- drying programs synchronization
- online preview of the drying process
- drying processes record
- reporting of single and group drying operations

### RAD KEY

- Establishing cooperation between a weighing instrument and a computer

### RADWAG Remote Desktop

- remote operation via computer, mobile phone or tablet
- sending text messages
- version for Windows 10 and Android systems

### Radwag Development Studio

- presentation of functions (and subfunctions) of communication protocol (Common Communication Protocol)
- possibility of connection with weighing equipment on which each function is carried out,
- library with mass control, contained within the development environment
- complete documentation of the communication protocol
- set of user manuals for different solutions addressed for programmers employed in companies using RADWAG-manufactured weighing equipment

### LabView Driver

- operation of RADWAG balances in LabView environment