MOISTURE BALANCE

PCE-UX 3011QD



- **weighing range: 220 g**
- **sample weight: min. 4 g**
- **sample volume: max. 95 cm^3**
- **weighing pan inside: Ø 105 / 115 mm**
- **adjustable heating temperature: 105 ... 360 °C**
- **radiator power: 375 W**
- **time setting: 1 ... 180 min**
- **menu lock**

Our moisture balance is a special device for temperature-insensitive materials with a maximum drying temperature of up to 360 °C. It is ideal for applications in raw material extraction, production, processing, research and recycling, as well as especially for building materials such as cement, concrete and gravel and the chemical industry, including powders, granulates and pastes. With a maximum sample weight of 220 g and a high measuring resolution of 0.001 g, it enables precise moisture measurement.

The operating principle is based on drying with simultaneous weighing, whereas the weight loss is continuously recorded and displayed as a percentage of the total mass. With a heater output of 375 W and an adjustable heating temperature of 105 °C to 360 °C, the moisture balance ensures quick, precise drying, even with challenging materials. Parameters such as % moisture, % dry matter, % moisture bd as well as g residual weight / kg and residual weight are available for the measurement evaluation, allowing the sample to be analysed in detail.

An automatic power-off function stops the drying process automatically when a constant weight is reached. The automatic power-off can be controlled via three adjustable criteria: start of sampling, sampling interval and weight loss per sampling interval, allowing flexible and precise control of the process. The moisture balance also has a timer that can be set from 1 to 180 minutes.

Specification

Absolute moisture	
Measuring range	0 ... 100 %
Resolution	0,01 %
Accuracy	0.01 %
Weighing range	
Measuring range from	0 g
Measurement range up to [Max]	220 g
Resolution [d]	0,001 g
Accuracy	0.001 g

General technical data	
Outputs	V24
Measuring functions	% moisture, % dry matter, % moisture bd, g residual weight / kg, Residual weight
Display type	LCD with backlight
Display size	4 Inch
Interface	USB, RS232
Heating temperature	105 ... 360 °C
Minimum load [min]	4 g
Dimensions	Bowl size inside: Ø 105 / 115 mm Inner shell height: 9 mm
Menu language	English, German, English (GB)
Protection class (device)	IP20
Power supply	230 V AC | 48/63 Hz
Connector type	Schuko plug
Operating conditions	10 ... 40 °C , 0 ... 90 % RH
Storage conditions	10 ... 40 °C , 0 ... 90 % RH
Dimensions (L x W x H x D)	380 x 323 x 280 x 280 mm
Weight	7700 g

PCE Instruments UK Ltd.
Chester Rd, Old Trafford Suite 1N-B, Trafford House, M32 0RS Manchester
Great Britain

Phone: +44 (0) 161 4649020
info@pce-instruments.co.uk