MOISTURE ANALYSER BALANCE

PCE-UX 3031D

» **Weighing range: 220 g**

» **Sample weight: Min. 4 g**

» **Sample volume: Max. 95 cm³**

» **Weighing pan inside: Ø 105 / 115 mm**

» **Adjustable heating temperature: 40 ... 180 ºC**

» **Radiator power: 250 W / 375 W**

» **Time setting: 1 ... 180 min**

» **Menu lock**

Our moisture analyser balance is a high-precision device that has been specially developed for plaster analysis. With a maximum weighing capacity of 220 g and a measuring resolution of 0.001 g, it enables exact and reliable moisture measurements. The balance works on the principle of drying with simultaneous weighing. During drying, the weight loss is continuously recorded and displayed as a percentage of the total mass.

The scale has two adjustable heating temperature ranges: 40 ºC ... 180 ºC and 105 ºC ... 360 ºC - which are made possible by two powerful radiant heaters: a 250 W infrared heater and a 375 W quartz heater. These heating elements ensure precise and efficient drying results and can be operated independently of each other in timer or automatic mode. For measurement evaluation, the device offers various parameters such as % moisture, % dry matter, % moisture ATRO as well as g residual weight / kg and residual weight, which enable the sample to be analysed.

The functions include an automatic switch-off function, which stops the drying process when the constant weight is reached. The automatic switch-off can be set to three criteria: start of sampling, sampling interval and weight loss per sampling interval. This allows a high degree of flexibility in controlling the drying process. There is also a timer that can be set from 1 to 180 minutes. Our appliance is also equipped with a menu lock that prevents accidental adjustment of the parameters.

Specification

Absolute moisture	
Measurement range up to	0 ... 100 %
Resolution	0,01 %
Accuracy	0.01

Weighing range	
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	40 ... 180 °C
Heating temperature 2	105 ... 360 °C
Minimum load [min]	4 g
Menu language	German, English, 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 380 x 440 x 280 mm
Other dimensions	Inner pan size: Ø 105 / 115 mm Inner pan height: 9 mm
Weight	8400 g

PCE INSTRUMENTS