

Moisture tester Type 2031

Rugged and accurate sampling for gypsum and materials with requirements of free and bound moisture. Suitable for laboratory and production application.

A micro processor controlled weight loss dehydration method of moisture analysis offers a truly accurate and efficient result.

This process uses infrared drying and continuous weight loss measurement.



Most advanced and modern technology combined with more than **50 years of experience** are the fundamentals of this development with micro-processor operated **high-tech weighing technology** with an elegant design and simultaneous robustness.

The **ULTRA X 2031** is equipped with an infrared (bright) heater and a quartz (dark) heater to dry out the moisture and the crystal moisture.

The main criteria for this development have been the following:

- **easy handling**
- **elegant but also functional design**
- **practical orientated**
- **robust execution**

All pre-selectable parameters are indicated on the clear LCD-display. Also the infrared beam intensity of 0...100 % can be adjusted in 1 % steps via the key or by a rotary knob for quick adjustment.

Beside the moisture 5 further data can be calculated, monitored and displayed (look technical data). The final value of a measurement can be evaluated in two different ways: either by an automatic and product depending stop drying function

“KONSTA STOP” or via a **built-in timer**. Further highlights are: the **pre-heating mode “Pre-Flash”** for very moist materials, sensitivity adjustment for the scale depending on the ambient conditions and continuous costs savings through reusable **stainless steel bowls**. Standard interface V24/RS 232, additional special accessories such as integrated or separate printers, software for Microsoft Excel and many more are available.

Technical data for the moisture analyzer type ULTRA X 2031:

weighing range:	310 g
resolution:	0,001 g
measured values:	% moisture increase of weight in grams % dry mass decrease of weight in grams % moisture ad actual sample weight g solids per kg
timer:	free programmable 0...90 min. in 10 second steps for time depending drying
KONSTA STOP:	automatic drying until weight constant selectable in 3 different modes: start measuring, measuring in intervals, weight loss/measured during intervals.
high-flash:	automatic, variable pre-heater to shorten the drying time up to 50% depending on the material or to reach the set-point temperature much earlier.
temperature:	selectable either free variable or with 100 steps range approx. 40...180°C with light heater, or up to 360°C with quartz heater
power from heater:	250 watts (infrared light heater) 375 watts (quartz dark heater)
sample weight:	any, minimum 1g, recommended minimum 4g
sample volume:	max. 95 cm ³
drying bowl:	stainless steel, diameter 11 mm
data output:	interface V24/RS 232
data signals:	all weight and measuring data in GLP-format with start time and variable interval print out. Selectable date, time, total measuring time, type of sample
power supply:	230 V (115 V with separate transformer) +/- 15%, 48-63 Hz
power consump.:	275 VA or 400 VA
dimensions:	360 x 280 x 415 (l x w x h)
weight:	approx. 8,7 kg
supply:	including reference weight, 2 measuring bowls from stainless steel, pincher for the bowls, lead wire

Subject to technical changes

Additional accessories available for samples, which are adhesive and hardly removable from the drying bowls:

	Part no.:
Aluminum foils diameter 130 mm x 0,01 mm	1001347
Aluminum foils diameter 130 mm x 0,03 mm	1001390
Foil press to form the aluminum foils	1012300

Our Product range: Moisture testers for high demand usage, sample driers (without balance), microwave drying cabinets, incinerators.

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