

# Operating instructions for moisture analysers Series ULTRA X 3001 (UX 3011, UX 3011Q, UX 3011HQ, UX 3031)

## Basic information

### Intended use

ULTRA X moisture analysers are solely designed to quickly measure moisture and dry matter in solid, viscous and fluid substances using thermogravimetric analysis. A sample is weighed while being dried by infra-red heat.

### Common features for all ULTRA X devices:

Short measurement time, gentle and even drying of samples, high reproducibility

Automatic or time-controlled measurement shut-off

## UX 3011/ 3011Q/ 3011HQ

Temperature-controlled infra-red heater 250 W/ 375 W

Temperature range: 40 – 200 °C/ 360 °C/ 600 °C

Stainless steel drying tray 111 mm diameter



## UX 3031

Special device for gypsum industry

2 temperature-controlled heaters for separate measurement of free and chemically bound moisture in gypsum products

Temperature range: 40 – 360 °C

Stainless steel drying tray 111 mm diameter



## UX 3081/ 3081WQ

Special device for extra large samples, e.g. in the chipboard industry

2 temperature-controlled ceramic heaters

Temperature range: 40 – 220 °C/ 300 °C

Stainless steel drying tray 245 x 120 mm



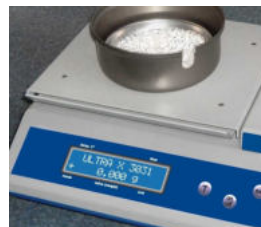
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## Technical data

### Scale:

Weight range	up to 220 g
Resolution	0.1 g
Sample volume	max. 95 cm <sup>3</sup>
Weighing tray	110 mm round



### For moisture analysis:

Initial weight	any weight from approx. 5 g, recommended from 10 g
Heater capacity	Infrared heater 250 watts Quartz heater 375 watts
Automatic shut-off	Automatic drying to a constant weight, using 3 factors for I heaters and Q heaters, which can be set separately: Query start, query interval, weight loss/ query interval
Temperature	Infrared heater adjustable from 40°C to 170 °C Quartz heater adjustable from 105 °C to 360 °C (3011Q)/ 105°C to 600°C (3011HQ) Ceramic heater adjustable from 40°C to 180 °C
Measuring units	% moisture % dry matter % ATRO moisture g solid matter/ kg
Reading accuracy	0.1% readable

### Communication:

Data terminal	V24 RS 232/ USB
Data output	all weight and measuring data meet GLP requirements with a start time, optional variable interval printout, date, time, total measuring time etc.

Using **ULTRA X DataBridge** software can be transmitted to a PC as a  
.xls file in Microsoft Excel,  
PDF file.

### For operating the device:

Mains connection	230 V 2%/ + 15 %
Mains frequency	48-63 Hz
Power input	250 watts – 375 watts, depending on the model
Dimensions	approx. B 385 x D 275 x H 420 mm
Weight	approx. 9 kg

Technical data subject to change without notice

**ULTRA X moisture analyzers are stand-alone units and not suitable for use in continuous production runs. We shall not accept any liability for incorrect readings!**