

ULTRA X 3081/ 3081WQ ULTRA X 3081D Moisture Analyser



To determine the moisture content of almost all liquid to solid materials with a sample volume of 485 ccm.

The principle is: drying up to 360 °C with simultaneous weighing.

Suitable for use in operations directly in production facilities and laboratories.



Almost 70 years of experience with innovative technology forms the basis for the ULTRA X moisture analyser. Precision weighing technology, simple operation, good functionality and design and a robust structure are combined in a practice-oriented manner.

Operating



Weigh the sample, pivot the radiator above it and switch it on, the measurement ends when the weight is constant. The parameters are set using three buttons in the menu. In addition to the moisture and solid material, additional measurement parameters can also be displayed.

The radiation temperature can also be set anywhere between up to 200 or rather **360 °C**. The moisture content can be determined using a timer or the automatic cut-out. Three criteria are **individually** set for the **automatic cut-out** depending on the product properties. The measurement result remains on the display until the device is next used.

This device is specially suitable for bulky substances or bulky substances resistant to high temperatures such as brass chips.

The reusable stainless steel sample dishes, size: 110 x 230 x 18 mm enable a higher weighing volume and mean ongoing cost savings.

ULTRA X 3081 moisture analyser

The ULTRA X 3081 can optionally be delivered with a separate **printer**.

The printout of all data is carried out in line with **GLP**. Intermediate values can be printed out at selectable intervals as needed.

All of the data are also output via the serial **RS 232** interface and **USB**. The printer can be switched off.



Technical Data

ULTRA X 3081 / ULTRA X 3081D

ULTRA X 3081WQ/ ULTRA X 3081WQD

Balance:

weighing range	400 g
resolution	0.001 g
sample volume	max. 506 cm ³
drying bowl	110 x 230 mm diameter



For Moisture measuring:

sample weight	any, minimum 1 g, recommended minimum 4 g
power of heater	250 watts (3081) or 400 watts (3081WQ)
automatic	automatic drying until weight constant selectable in 3 different modes: start measuring, measuring in intervals, weight loss/ measured during intervals.
timer	1 - 180 minutes.
temperature	selectable from 40 °C up to 200 °C (3081) or 120 °C up to 360 °C (3081WQ)
measured values	% moisture % dry mass % moisture ad actual sample weight g solids per kg
measuring accuracy	0.01%
device identification	4-digit ID for identifying the device
menu lock	lock the menu to prevent accidental changes to drying parameters cal function is further available.

Communication:

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

with **Software ULTRA X DataChannen** to transfer on PC as .xls data to Microsoft Excel,
.html date,
.xml date and
.txt date.

For using:

power supply	230 V 20%/ + 15 % 48 63 Hz
power consump.	275 VA (3081)/ 800 VA 3081WQ)
dimensions	approx. l 385 x w 275 x h 420 mm over all
weight	approx.. 8,5 kg

Accessories:

	Part no:	Using:
stainless-steel drying tray	1000282	sample tongs (2 sets supplied with the device)
tray tongs	1000230	for lifting the tray (supplied with the device)
power cable	1000190	Power supply (supplied with the device)
calibtion weight F1 200 g	1000403	for claibrating the balance
aluminium foils 130 x 260 mm, 30µ	1000017	for lining the drying tray
foil press	1000063	for shaping the aluminium foil

Consumables:

paper for printer 58 mm	1000234	for separat printer
durable 10 years, according to manufacturer		
ceramic heater 250W	1000139	aparepart
ceramic heater 400W	1000138	sparepart



subject to technical modification



a & p instruments e.K.

Inh. Peter Ukena

Albert-Schweitzer-Straße 16, D-32758 Detmold,

Tel. +49 (0)5232 9778-0, Fax +49 (0)5232 9778-20

Internet: www.apinstruments.de, Email: info@apinstruments.de