

# UniBloc Moisture Analyzer MOC63u



# MOC63u

High-performance Moisture Analyzer applicable for a wide application range.

## Main features of MOC63u

### Easy operation

–Automatic starting mode–



Easy-to-operate software and key layout. Automatic starting mode saves measurement time.

### Backlight display



Illuminated display provides comfortable display visibility in all settings.

### Compact design

MOC63u is one of the most compact instruments in its class. Width is only 202 (mm).

### Data management –WindowsDirect–

The measurement conditions and data can be stored in MOC63u.

Data IO for printer, RS-232C and USB connection for PC are available as standard. Send balance data to Excel or other Windows applications.



### Maintenance

It's very easy to clean up and replace the halogen lamp.



### Large pan size



Large sample pan:  $\phi$  95mm diameter

### Long lifetime halogen heater



Halogen heater promises you quick and accurate measurement.



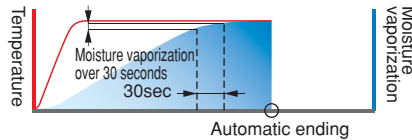
# Measurement modes of MOC63u

Choose the right measuring mode for your application.

## Ending modes

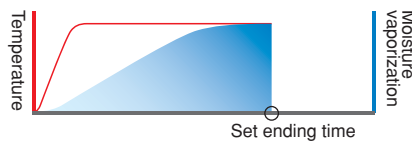
### • Automatic ending mode

Automatically ends measurement when moisture loss over the previous 30 seconds becomes smaller than specified percentage.



### • Timed ending mode

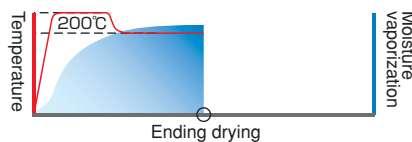
Automatically ends measurement when the specified amount of time has elapsed.



## Alternate drying modes

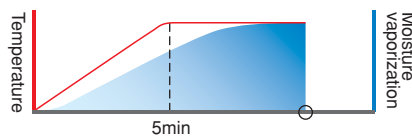
### • Rapid drying mode

First dries with the highest temperature for the specified period, then shifts to the specified temperature shortening measurement time.



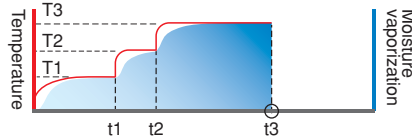
### • Slow drying mode

Gently heats samples that might solidify at the surface or samples that reduce under high temperature.



### • Step drying mode

Allows step-by-step changes in drying conditions. This feature is useful when measuring samples that contain a large amount of water.



## Starting mode

### • Automatic starting mode

Starts measurement immediately after closing the lid. It will save time in repeated measurement.



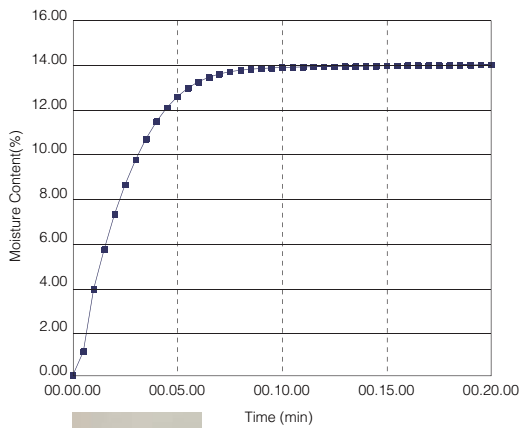
# Measurement data

With WindowsDirect



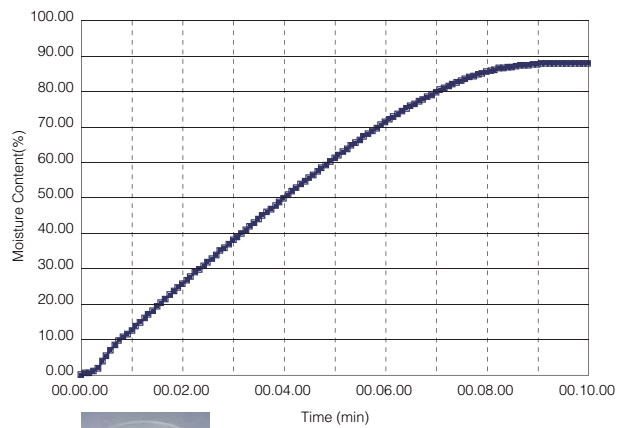
## For food industry

Measurement data of soft flour



Soft flour

Measurement data of milk

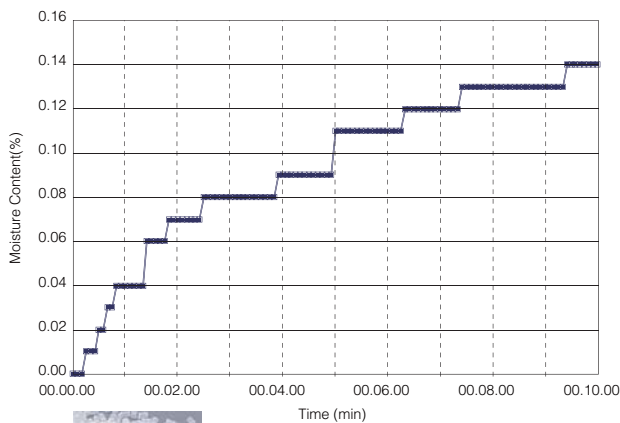


Milk



## For chemical industry

Measurement data of resin pellet

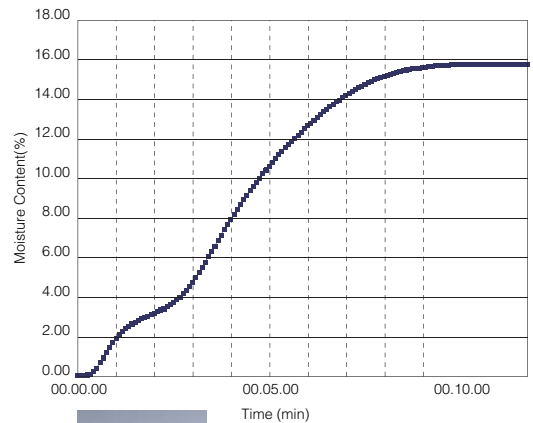


Resin pellet



## Standard sample

Measurement data of the sodium tartrate dihydrate



Sodium

## Excellent performance for a wide variety of applications in multiple industries.



### For food industry

- Inspection of harvest
- Quality assurance of processed food



### For environmental industry

- Measurement of polluted sludge
- Measurement of the by-product of biofuel production



### For chemical industry

- Quality control of paint
- Inspection material in the manufacturing process



### For Pharma industry

- Quality assurance of drugs
- Inspection of cosmetics

## Durable, high-performance aluminum alloy mass sensor

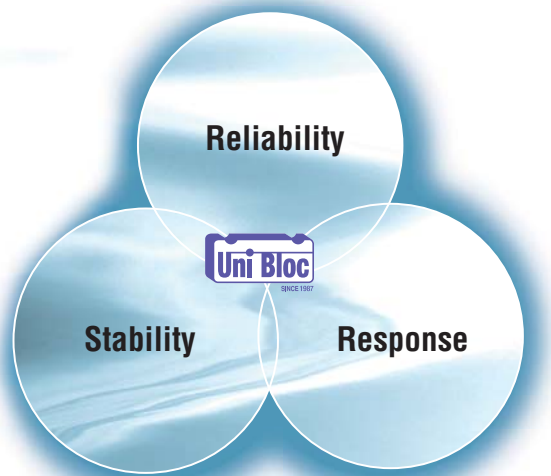
**UniBloc** Since 1989

The MOC63u incorporates a one-piece aluminum alloy mass sensor technology (UniBloc), first introduced by Shimadzu for precision balances in 1989. It excels in performance, and resists deterioration and damage by ordinary impacts. The UniBloc's compact, uniform structure replaces 70 parts found in a conventional electromagnetic balance sensor assembly and ensures stable temperature characteristics, excellent response time and stable corner-load performance.

The UniBloc design permits a consistency of production that assures reliability and a long operational life.



### 3 Benefits of UniBloc.



## ■ MOC63u Specifications

|  |  |                        |
|--|--|------------------------|
| Capacity                                   | Max  | 60 g                   |
|  | Min  | 0.02g                  |
| Minimum readability                        |  | 0.001g                 |
|  |  | 0.01/0.1% (Selectable) |
| Repeatability                              |  | 0.15% (2g)             |
|  |  | 0.05% (5g)             |
|  |  | 0.02% (10g)            |
| Drying Heater                              | Straight type halogen heater   |                        |
| Power                                      | 400W   |                        |
| Temperature range setting                  | 50-200°C (1°C increments)<br>(There is a time restriction when exceeding 180°C.) |                        |
| Display                                    | LCD with backlight   |                        |
| Pan size                                   | φ 95mm   |                        |
| Dimensions (WxDxH) mm                      | 202 × 336 × 157  |                        |
| Weight                                     | 4kg  |                        |
| Operational temperature and humidity range | 5 to 40°C, 85%RH or lower  |                        |

|                                    |  |
|------------------------------------|--|
| Measurement modes                  | Standard<br>(Easy start/Automatic end/Timed end)     |
|                                    | Rapid drying<br>(Easy start/Automatic end/Timed end) |
|                                    | Slow drying<br>(Easy start/Automatic end/Timed end)  |
|                                    | Step drying<br>(Easy start/Automatic end/Timed end)  |
| Timer setting                      | 1-120 minutes or continuous<br>(max 12 hours)        |
| Interface                          | RS-232C (9-pin connector) I/O port                   |
|                                    | USB port   |
| Measurement conditions data memory | 10   |
| Data memory                        | 100  |
| Temperature calibration kit        | Option   |

## ■ Accessories list

| Standard accessories      | Optional accessories                             |
|---------------------------|--|
| 1 Sample pan              | 1 Printer EP-80                                  |
| 2 Aluminum sheet          | 2 Printer EP-90                                  |
| 3 tongs                   | 3 In-use protection cover for display (5 pieces) |
| 4 In use protection cover | 4 Aluminum sheet                                 |
| 5 Fuse                    | 5 Fiberglass sheet                               |
|                           | 6 Temperature calibration kit                    |
|                           | 7 Sample pan (SUS)                               |
|                           | 8 RS-232C cable                                  |
|                           | 9 USB connection cable                           |
|                           | 10 Halogen heater for replacement                |



### ⚠ Safety Precautions

Read instruction manual before using this instrument.

- Use this instrument for measurements in which water vaporizes from the sample under heating.
- The temperature of the heater installed in this instrument becomes higher than the set heating temperature for the sample.
- Any sample that is explosive, inflammable or may cause hazardous reaction under heating must not be measured with this instrument.



SHIMADZU CORPORATION. International Marketing Division

3. Kanda-Nishikicho 1-chome, Chiyoda-ku, Tokyo 101-8448, Japan Phone: 81(3)3219-5641 Fax: 81(3)3219-5710  
<http://www.shimadzu.com/>

SHIMADZU SCIENTIFIC INSTRUMENTS, INC.  
 7102, Riverwood Drive, Columbia, Maryland  
 21046, U.S.A.  
 Phone: 1(410)381-1227  
 Fax: 1(410)381-1222  
<http://www.ssi.shimadzu.com/>

SHIMADZU EUROPA GmbH  
 Albert-Hahn-Strasse 6-10, 47269 Duisburg,  
 F.R. Germany  
 Phone: 49(203)7687-0  
 Fax: 49(203)7666-25  
<http://www.shimadzu.eu/>

SHIMADZU (ASIA PACIFIC) PTE LTD.  
 79 Science Park Drive, #02-01/08, Cintech IV,  
 Singapore Science Park 1, Singapore 118264  
 Phone: (65)6778-6280  
 Fax: (65)6779-2935  
<http://www.shimadzu.com.sg/>

SHIMADZU INTERNATIONAL TRADING  
 (SHANGHAI) CO., LTD.  
 PUXI BRANCH  
 Block E, No. 570 West Huaihai Road, Shanghai  
 200052 P.R. China  
 Phone: 86(21)2201-3888  
 Fax: 86(21)2201-3666  
<http://www.shimadzu.com.cn/>

SHIMADZU DO BRASIL COMERCIO LTDA.  
 Avenida Marques de Sao Vicente,  
 1771 Barra Funda  
 CEP: 01139-003 - Sao Paulo, SP - Brazil  
 Phone: 55(11)2134-1688  
 Fax: 55(11)3611-2209  
<http://www.shimadzu.com.br/>

SHIMADZU MIDDLE EAST & AFRICA FZE  
 UAE HEAD OFFICE  
 Warehouse No. RA08UC02, Jebel Ali, Dubai  
 P.O. BOX 262081 United Arab Emirates  
 Phone: 971(4)883-6668  
 Fax: 971(4)883-6808

SHIMADZU SCIENTIFIC INSTRUMENTS  
 (OCEANIA) PTY. LTD.  
 Unit F, 10-16 South Street, Rydalmere N.S.W.  
 2116, Australia  
 Phone: 61(2)9684-4200  
 Fax: 61(2)9684-4055  
<http://www.shimadzu.com.au/>