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# Operating Instructions KERN EasyTouch

# Easy Touch Density User manual





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### **1.0 Introduction to density**

The density function allows the professional determination of the density of solid matter and liquids according to the gravimetric-Archimedean principle by weighing activities in air and in a reference liquid.

• Click on the function menu from the main menu.

₩ Interview Interview	Database Databases list	English∨	(
 ☆	Batch & statistics Statistical evaluation of weighing process by splitting the product lot in batches	Count Define a reference and detect the count of objects Define a reference and detect the count	
	Along to find the weight difference of objects and gives the summary on the comparison.	Formulation Mode different single components are added to a mixture Mode different single components are	
ŵ r	Allows to measure objects relatively to the weight of a reference object	Quick dosing Dosing function using target weight	
Ur	Target-count         Tolerance           → Solution         Define a reference and detect the count objects and compare it with the target         Allows to measure objects relatively to the weight of a reference object	Totalisation Sum of your measured objects	
	Weighing Standard weighing function		
EASYTOUCH			

- The function list screen will open. Click on the density function from the functions list.
- The main screen of the function appears,

	Density Home				$English \lor$	Albe Admi	n –	□ ×
	Density							
$\widehat{\mathbf{G}}$	0	Select the kind of density mea	surement					Reference liquid
80				Choose the object from memory				
00		Reference liquid						Sinker object
		Please enter liquid name		Choose the reference liquid from memory				
ŝ		Temperature *	Unit*	Density (at g/cm³) *				Reset
Ū,								
		Add Reference liquid to m	aster memory					
KERN EASY TOUCH						Back	Save & proceed	

### 2.0 Functional features

User can pick either of the options solid or liquid based on the object what is required to be



### find density.

	Density Home				English∨	Albert Sauter Admin		
	Density	Select the kind of density me	asurement					
W		Solid O Liquid		Choose the object from memory				liquid
		Reference liquid						Sinker
		Liquid name * Please enter liquid name 		Choose the reference liquid from memory				object
Ø		Temperature * 21	Unit * ℃ ✓	Density (at g/cm³) * 0.00				Reset
(];		Add Reference liquid to r	master memory					
KERN EASY TOUCH						Back Save & pr	oceed	

### 3.0 Determine the density of solid matter

The start screen for density determination appears where you can define the type of object for which the density has to be determined.

### 3.1 Defining the reference liquid

- Click on the "solid" option in the screen to measure the density of solid.
- The below fields appear for the users allowing them to enter the new reference liquid details as such the "reference liquid name", temperature" and "density".

	Density Home				English	Albert Sauter	- 🗆 X
	Density						8
$\hat{\mathbf{G}}$	R	Select the kind of density m	asurement				(+) Reference
		Solid Uiquit	1	Choose the object from	n memory		iiquia
		Reference liquid					Sinker
		Liquid name * Please enter liquid name		Choose the reference liquid	I from memory		object
۲Č1		Temperature *	Unit *	Density (at g/cm <sup>3</sup> ) *			C
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		21	°C \	0.00			Reset
□}		Add Reference liquid to	master memory				
			,				
KERN EASY TOUCH						Back Save	& proceed

• Now you can fill in the following details to create a new reference liquid.



ы С	Density Home				English∨		Albert Sauter	- a x
<u>ا</u>	Density	Select the kind of density mea	asurement	Choose the object from memory				Reference liquid
		Reference liquid						Sinker
		Liquid name * Water		Choose the reference liquid from memory				object
¢¢		Temperature * 10	Unit * °C V	Density (at g/cm³) * 0.997				Reset
G		Add Reference liquid to r	naster memory					
KERN EASY TOUCH						Back	Save & proceed	

### Reference liquid name

The user can enter a reference fluid name for the fluid in which the object has to be measured.

#### Temperature

User can define the temperature of the reference liquid. User can define various temperature to the single reference liquid.

#### Density

The user can define the density of the reference liquid. User might be able to define the density according to the temperature of reference liquid. User will have the provision to add multiple density aligning with temperatures to a single reference liquid.

### **3.2 Add reference liquid to master memory:**

This allows you to save the created reference liquid in master memory and it can be reused in the density function.



)	Density Home					English~	Albert Sauter Admin	-	
	Density								
$\widehat{\mathbf{A}}$	Ð	Select the kind of densi <ul> <li>Solid</li> </ul>	ty measurement Liquid		Choose the object from memory				Reference liquid
		Reference liquid							۵
		Liquid name * Water			Choose the reference liquid from memory				Sinker object
ŝ		Temperature * 10	Unit * °C	$\sim$	Density (at g/cm³) * 0.997				Reset
(];		🗹 Add Reference liqu	id to master memor	у					
KERN EASY TOUCH						Back	Save & pro	ceed	

• If you enter all the mandatory fields, then "add reference liquid to master memory" will be enabled and upon selecting it, the data will be saved in the master memory and it can be reused any time in the density function.

الأ	Density Density > Measurement of solid		English∨	Albert Sauter Admin		
			- Search h	/ kev		8
ନ	Reference liquid		Active reference liquid V		Q	(+) Add new
	Master object name Methanol	Master object name Ethanol	Master object name Water			
Ø						
(];						
KERN EASY TOUCH					Back	

### 3.2.1 Adding the reference liquid in master memory

• Choose the "reference liquid icon" will redirect to the screen where the user can add the various reference liquids used for finding the density of solid object.



×	Density Density > Measurement of solid			English V Albert Sauter		
	)					
ŵ	Reference liquid		Active reference liquid V	Search by key	Q	(+) Add new
88	Master object name Methanol	Master object name Ethanol	Master object name Water			
ŝ						
ŀ						
EASY TOUCH					Back	

• Click on the "add new" and enter the liquid name, density and temperature. User will having the provision to define multiple densities in alignment with the temperature as we all know the liquids density varies with the temperature.

الأ	Density Density > Measurement of solid			$English_{\lor}$	Albe	n sauter		n ×	
			Add new reference liquid					E	2
$\widehat{\mathbf{G}}$	Reference liquid		Liquid name * Mercury						
	Master object name Methanol	Master object name Ethanol	Define density and temperature						
			Density (at g/cm <sup>3</sup> ) * 13.546	Temperature * 21	Unit* ℃ ✓			Add	
ġ									
Ū,									
KERN EASY TOUCH						Back	s	ave	ה

• Click on save to save your reference liquid after your addition of temperature and its respective densities.



الأ	Density Density > Measurement of solid			English~ Albert Saute	er _	□ ×
						83
ŵ	Reference liquid		Active reference liquid $\sim$	Search by key	Q	<b>(</b> +)
	Master object name Mercury	Master object name Methanol	Master object name Ethanol	Master object name Water		Add new
ŵ						
œ						
					Back	

• The data will get saved and is contributed for reuse

### 3.3 Utilizing the added reference liquid from memory

The user might be able to pick the reference liquid from the memory where the user has predefined the list of reference liquids and its properties what used frequently. The reference liquid in the memory can be reutilized.

• Redirect to the home screen and now choose the weighing object type as "solid".

	Density Home				$English_{\lor}$	Albe Admi	n	- 🗆 X
	Density	Select the kind of density mea	surement					
		Solid O Liquid		Choose the object from memory				Reference liquid
		Reference liquid						Sinker
		Liquid name * Please enter liquid name		Choose the reference liquid from memory				
¢ې		Temperature * 21	Unit* ℃	Density (at g/cm³) * 0.00				Reset
[]÷		Add Reference liquid to n	aaster memory					
KERN EASYTOUCH						Back	Save & proceed	

• Now, click on "choose the reference liquid from memory", you will be redirected to the screen where you can select the reference liquid from the master memory.



Ké a	Density Density > Measurement of solid		English	Albert Sauter Admin	- 8	×
				Search by key		
$\widehat{\basis}$	Reference liquid		Active reference liquid V		Q	J
	Master object name Mercury	Master object name Methanol	Master object name Ethanol	Master object name Water		
		L	1			
ŝ						
(]-						
KERN EASY TOUCH					Back	

- User will be provided with the search option to search the required weighing object.
- User will be redirected to the predefined list where the user can choose the respective temperature and density.

١	Density Home				English~ Albert Sauter			×
	Density	Select the kind of density measurement		Select any of temperature Reference liquid Methanol	e for reference liquid			8
ហ		Solid Ciquid	Cł	Temperature	Density			
				10 °C	0.8009 g / cm <sup>3</sup>		>	
		Reference liquid		11 °C	0.8 g / cm³		>	
		Liquid name * Methanol		12 °C	0.7991 g / cm³		>	
~				13 ℃	0.7982 g / cm³		>	
ξ <u>φ</u>		Temperature 21 °C	Density (	(at g/cm 14 °C	0.7972 g / cm³		>	
ſſ.			<u> </u>		< 1 2 >			
}					Or			
				Other temperature	Unit * Density (st a/cm3) *			
				Enter temperature °	°C 0.00			
				Update object in master	memory			
KERN EASY TOUCH					Close	App	ply	

• Select the temperature of reference liquid from the list of temperatures which are already defined in the reference liquid or input new values for temperature and density and proceed



× č	Density Home					English	✓ ✓ ✓ Albert Sauter Admin			×
	Density	Select the kind of density measurement			Select any of temperatu Reference liquid Methanol	ure for refere	nce liquid			8
ហ		Solid O Liquid		Choose	Temperature		Density			
					10 °C		0.8009 g / cm³		>	
		Reference liquid			11 °C		0.8 g / cm <sup>3</sup>		>	
		Liquid name * Methanol		Choose the re	12 °C		0.7991 g / cm³		>	
ŝ					13 °C		0.7982 g / cm³		>	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		21 °C	Q	Density (at g/cm 0.00	14 °C		0.7972 g / cm³		>	
ŀ						<	1 2 >			
					Other temperature		Or			
					Temperature *	Unit *	Density (at g/cm³) *			
					14	°C	0.7972			
					Update object in mast	ter memory				
KERN EASY TOUCH							Close	Aş	pply	

• The reference liquids and its respective properties would be auto populated so the user might start finding the density by clicking on the "apply"

	Density Home		English	×
	Density			
$\widehat{\ }$	Ð	Select the kind of density measurement  Solid Choose the object from memory  Choose the object from memory	, Refer liqu	9 rence uid
		Reference liquid		5
		Liquid name * Methanol Choose the reference liquid from mer	mory	lect
Ô		Temperature Density (at g/orn?) * 14 °C Q 0.7972	Res	Set
ŀ				
			_	
KERN EASY TOUCH			Back Save & proceed	

### 3.4 Master memory

The user might be able to pick an object from the memory where the user can predefine list of objects what is used frequently. The object in the memory can be reutilized.

Steps to be followed to create a master data with functional properties

• Click on the database icon and redirect to the master data.



	Database Databases list		$English_{arphi}$	Albert Sauter – D ×
 ش	Nutrition master	Master data Master data	Dynamic database	Container master Container master
	_ 云开 Test weight		I	
	ÖDL Test weight			
ŝ				
(];				
EASY TOUCH				

• The below screen would be displayed. The user might be able to see the list of master data objects created here.

)	Database Database > Master data list		English~	Albert Sauter	□ ×
		Carrie I	her fan e		
~		Active master data	by key	२ 🖁 🗏	
M					Add master object
	Matter object ID 43567899 Katter object name Iron				
	Description To make iron rods				
Ô					لي Export
Ē					ک] Template
EASY TOUCH				Back	

• The user can click on the "add master object" to create a new master object.



	Master database	e new master data	English	V Albert Sauter	-		×	
	Create new ma	ster data						
ିନ		Component / Object ID *	Component / Object name *		ID number / Name			
	E	Please enter master object ID	Please enter master object name	Please enter master object ID				
	Upload image	Description Please enter the description	Container weight Please enter the container weight	Unit g 🔻	Assign functions Please select the object type			$\sim$
	Only 'jpeg', 'jpg',& 'png','bmp'							
Ô								
(]}								
					Back	s s	iubmit	

- The user can fill in the information as such component / object ID, Component / object name, ID number / name, description, container weight and the image for the reference.
- Now user can select the required function "density" to utilize the properties.

ر ال	Master database Database > Edit master data	<b>faster database</b> atabase ≥ Edit master data				- 🗆 ×
	Edit master data					
$\widehat{\ }$	Component / Obje 456789	ct ID *	Component / Object name * Gold		ID number / Name 3456789345678943567	
	Description		Container weight	Unit	Assign functions	
	Only 'jpeg', 'jpg'.& 'png', 'bmp'	mo	9	g •	Density	
ŝ	Density					^
ŀ	Solid Liquid					
	Please assign the density	Q				
	Water					
	Ethanol					
	Methanol	l				
KERN EASY TOUCH					Back	Update

• Upon clicking the function, the functional properties would be displayed. Please choose the object type as "solid".



````````````````````````````````````	Master database Database > Edit r	ə naster data						Eng	glish∨	Albert Saute Admin	r –		×
	Edit master da	ta											
$\widehat{\mbox{\ }}$		Component / Object ID * 456789				Component / Object name * Gold			ID num 3456	ID number / Name 3456789345678943567			
	Remove Image Cold from Alongo				Container weight Unit		Assign functions						
	Only 'jpeg'. 'jpg'.& 'png'.'bmp'	Gold Holli A	lonio			2		9	Densi	y			
ţĊ;	Density												^
ŀ	Solid Assigned liquid Methanol	Liquid		×									
	Density 0.8009	Temperature 10.0 °C	Density 0.8	Temperature 11.0 °C	Density 0.7991	Temperature 12.0 °C	Density 0.7982	Temperature 13.0 °C	Density 0.7972	Temperature 14.0 °C	Density 0.7963	Temper 15.0 °	ratur °C
KERN EASY TOUCH										Back		Update	

- User can choose the respective reference liquid and click on submit to save the master object.
- The master object data is being saved and user could be able to view the created master object in the master list.

الأ	Database     English     Albert Sauter       Database > Master data list     Admin     -	□ ×
	Search by key	
ନ	Active master data V Q 88 E	Add master object
	Master object ID 456789 Master object name Gold Image: Chame Column Co	
	Description Description Gold from Nomo To make iron rods	
ŝ		Export
œ		∑]_ Template
KERN EASY TOUCH	Back	

• Now redirect to the function "density" to utilize the created master data





Ĭ	Functions Functions list	English∨
 ∽	Batch & statistics Statistical evaluation of weighing process by splitting the product lot in batches Classification Allows to measure objects relatively to the weight of a reference object	Count         Define a reference and detect the count of objects         Density
	Difference Allows to find the weight difference of objects and gives the summary on the comparison Dynamic Measure a moving object over a long period of time	Formulation         Medical           Mode different single components are added to a mixture         Collect weighing value and ID from the patient, save and transform this data
Ô	Percentage weighing         Prepack           Allows to measure objects relatively to the weight of a reference object         Function to avoid manual calculations	Quick dosing Dosing function using target weight
U"	Target-count         Tolerance           → So         Define a reference and detect the count of objects and compare it with the target         Allows to measure objects relatively to the weight of a reference object	Totalisation         Variable           Sum of your measured objects         Allows to create and define new customized units and utilize
	Weighing Standard weighing function	
KERN EASY TOUCH		

• The user can be able to pick an object from the memory what is going to be measured. Master memory is the place where the user can predefine list of objects what is being used frequently. The object in the memory can be reutilized for any number of determinations.

الأ	Density Home				English~	Albert Sauter	
	Density						
$\widehat{\mathbf{G}}$		Select the kind of density meas Solid Liquid	surement	Choose the object from memory			Reference liquid
		Reference liquid	L				<u>Cinker</u>
		Liquid name * Please enter liquid name		Choose the reference liquid from memory			object
ĝ		Temperature * 21	Unit * ℃ ✓	Density (at g/cm <sup>1</sup> ) * 0.00			Reset
<u> </u>		Add Reference liquid to ma	aster memory				
KERN EASY TOUCH					Back	Save & proceed	

• Click on the memory and the user will be taken to the master memory to pick from the list of objects predefined. User can click on the required object to be weighed.



	Density Home	English~ Albert Sauter	- 🗆 ×
	List of master objects	Search by key	० छ ≣
ନ			
	Master object ID 456789 Master object ID Asford object name Gold Inno		
	Description Description Gold from Alomo To make iron rods		
Ô			
(j.			
EASY TOUCH			Back

- User will be provided with the search option to search the required weighing object.
- User will be redirected to the previous screen upon clicking the required object and all the details would be auto populated.

Note: User will be displayed with the screen to choose the temperature and density of the reference liquid in case if the reference liquid is consisting of more than one density.

ы Ма	Density Home		$English_{arphi}$	Albert Sauter	
	Density				
ନ	Û	Solid Liquid Choose th	object from memory		Reference liquid
		Applied master object			۵
		Master object ID Master object name ID number / 456789 Gold 345678934	ame 5678943		Sinker object
ŵ		Reference liquid			Reset
ŀ		Liquid name * Methanol Choose the ref	rence liquid from memory		
		Temperature Density (at g/cm? 11 °C Q 0.8			
KERN EASYTOUCH				Back Save & proceed	

### 3.5 Finding the density

Once the temperature and the density are defined click on the "save and proceed" button to proceed further.



الأ	Density Home		English V Albert Sauter –	□ ×
	Density			
	M	Select the kind of density measurement		Reference
	e	Solid Liquid     Choose the object from	memory	iquid
		Applied master object		<u>í</u>
		Master object ID Master object name ID number / Name 456789 Gold 3456789345678943		object
ŝ		Reference liquid		Reset
ŀ		Methanol Choose the reference liquid t	from memory	
		Temperature Density (at g/cm <sup>3</sup> ) *		
		11 °C Q 0.8		
KERN EASY TOUCH			Back Save & proceed	

#### **Device features**

The device features can be utilized upon connecting the device with the weighing scale.

• Indication of "no device being connected" will be displayed.

الله ال	Density Density > Measurement of solid			English	Albert Sauter Admin	- 🗆 X
	Connect a device to continue No device connected					<b>B</b>
ŵ			<b>e</b>	(	0	
88			Air	Li	quid	
ŝ						
ŀ		Tare		Zei	ro	
	Applied master object					
	Master object ID 456789 Gold ID rumber / Name 3456789345678943567				Liquid name Result in air	Methanol 0.00 g
KERN EASY TOUCH	Back					Measurement in liquid —

- The provision to minimize and maximize were also being given in the upper right corner of the screen to get a full view mode
- Now connect a device to proceed with weighing of an object by clicking on the "connect a device to continue"
- Connect a device which is physically connected to the system and now the weighing mode is activated, and screen looks as per the below.



к б	Density Density > Me	asurement of solid					English~ Albert Saute	r – 🗆 ×
	Internal 3UANR	code M45678 KI	odel name DP 3000-2	Max 3 kg	Min O kg	d 0.01 g		B 8
ŵ	L				<b>(</b> *)		(0)	
					Air		Liquid	
					0.00	)g		> 0 <
¢	Min: 0,00 g							Max: 3,000.00 g
G			Tare	<u>0.00</u> g			Zero	, ,
	Applied master	object						
		vlaster object ID 156789 vlaster object name Gold D number / Name 1456789345678943567					Liquid name Result in air	Methanol 0.00g
KERN EASY TOUCH	Back						(	Measurement in liquid $ ightarrow$

#### Start measurement in air

Place the required object in the weighing scale and after stabilization, then click on "measurement in liquid" to save the weight of the object measured in air and then to proceed measuring the object in the reference liquid.

K M	Density Density > M	easurement of solid	d				English~ Ribert Sa	uter – 🗆 X
	Interna 3UAN	l code R45678	Model name KDP 3000-2	Max 3 kg	Min 0 kg	d 0.01 g		® 🛛
$\widehat{\basis}$					and the second s		()	
					Air	]	Liquid	
					256	<b>.71</b> g		
۲¢	Min: 0.00 g	-				]		Max: <b>3.000.00</b> g
();			Tare	<u>0.00</u> g			Zero	
	Applied maste	r object						
		Master object ID 456789					Liquid name	Methanol
		Master object name Gold ID number / Name 3456789345678943567	7				Result in air	256.71 g
KERN EASY TOUCH	Back							Measurement in liquid $ ightarrow$

### Measurement in liquid

Upon clicking the measurement in liquid you will be taken to the screen where you can measure the object immersing in the reference liquid.

Here in this screen the net weight of the object in the reference liquid is captured.

The user should then click on "density" to view the density of the object





### **Calculate density**

The density value is calculated based on the density of the reference liquid and the net weight of object in air and liquid based on the gravimetric-Archimedean principle and displayed in the result screen.

i i i i i i i i i i i i i i i i i i i	Density > Result		English V Reference Admin X
	Master object ID 456789	Master object name Gold	ID number / Name 3456789345678943567
ନ	Measurement data		
	Reference liquid Methanol	Density (Reference liquid) 0.8 g / cm <sup>3</sup>	Measurement in air 256.71 g
	Measurement in air (Tare weight) 0.00 g	Measurement in air (Gross weight) 256.71 g	Measurement in liquid 234.32 g
Ô	Measurement in Liquid (Tare weight) 0.00 g	Measurement in Liquid (Gross weight) 234.32 g	Density 11.44969 g / cm³
ŀ	Temperature of reference liquid 11 °C	Outside temperature 21 °C	
	Weighing device data	User information	
	Internal code 3UANRA5678 Model name Serial numt KDP 3000-2 3245678	er KERN & Sohn GmbH sohn.com, https://w	rated by ter 1-25 7/39:39 1, Ziegelei 1, Balingen, Germany, 72336, +49 7433 99330, info@kern- ww.kern-sohn.com/
KERN EASY TOUCH	Auto print Update object in master memory	Back	Print Export as PDF Save

### 3.6 Result data

### Measurement data

- An overview of the determined data appears upon clicking on the button "end".
- The below screen appears upon clicking the end button. The user might be able to view the complete result data.
- Here, the user might be able to



### 3.6.1 Add object from memory

The user might be able to pick an object from the memory where you can predefine list of objects what you use frequently. The object in the memory can be reutilized.

	Density Density > Result		English∨ ∭ Albert Sauter – ⊡ ×
	Save result data Object data		
	Dynamic object ID 567890	Dynamic object name Orderid_678900	Add master-object
A	Measurement data		
	Reference liquid Methanol	Density (Reference liquid) 0.7972 g / cm³	Measurement in air 234.35 g
\$	Measurement in air (Tare weight) 0.00 g	Measurement in air (Gross weight) 234.35 g	Measurement in liquid 184.63 g
ڻل	Measurement in Liquid (Tare weight) 0.00 g	Measurement in Liquid (Gross weight) 184.63 g	Density 4.70781 g / cm³
	Temperature of reference liquid 14 °C	Outside temperature 21 °C	
	Weighing device data	User information	
	Internal code 3UANR45678	Result generated Albert Sauter on 7022-11-25	by 17:42:41
KERN EASY TOUCH		Back	Print Export as PDF Save

### 3.6.2 PDF, print and save

The user can save the data, generate the result data as an PDF or excel or print the results. All the saved results would be found in the dynamic database.

ه ۱	Density Density > Result		English - Albert Sauter
	Master object ID 456789	Master object name Gold	ID number / Name 3456789345678943567
ନ	Measurement data		
	Reference liquid Methanol	Density (Reference liquid) 0.8 g / cm <sup>3</sup>	Measurement in air 256.71 g
	Measurement in air (Tare weight) 0.00 g	Measurement in air (Gross weight) 256.71 g	Measurement in liquid 234.32 g
ŵ	Measurement in Liquid (Tare weight) 0.00 g	Measurement in Liquid (Gross weight) 234.32 g	Density 11.44969 g / cm³
ŀ	Temperature of reference liquid 11 °C	Outside temperature 21 °C	
	Weighing device data	User information	
	Internal code 3UANR45678 Model name Serial num KDP 3000-2 3245678	ber Result ger KERN & Sohn Gmb sohn.com, https://	nerated by auter -11-25 17:39:39 HI, Ziegelei 1, Balingen, Germany, 72336, +49 7433 99330, info@kern- www.kern-sohn.com/
KERN EASY TOUCH	Auto print     Update object in master memory	Back	Print Export as PDF Seve

### 3.6.3 Dynamic object ID and name

The user can enter a reference id and name to the weighing objects to stay unique and search based on the dynamic id and name in the dynamic database (after the result data is being saved) regarding the weighing results of an object.



к С	Density Density > Result		English~ International Albert Sauter – D ×
	Save result data Object data		8
	Dynamic object ID 567890	Dynamic object name Orderid_678900	
	Master object ID 456789	Master object name Gold	ID number / Name 3456789345678943567
	Measurement data		
ŝ	Reference liquid Methanol	Density (Reference liquid) 0.7972 g / cm³	Measurement in air 234.35 g
ŀ	Measurement in air (Tare weight) 0.00 g	Measurement in air (Gross weight) 234.35 g	Measurement in liquid 184.63 g
	Measurement in Liquid (Tare weight) 0.00 g	Measurement in Liquid (Gross weight) 184.63 g	Density 4.70781 g / cm³
	Temperature of reference liquid 14 °C	Outside temperature 21 °C	
	Weighing device data	User information	
EASYTOUCH		Back	Print Export as PDF Save

### 3.6.4 Update object in master memory

The user can be able to save the functional properties of the object in the master memory to reutilize the data by clicking on the "update object in master memory".

ر ال	Density Density > Result	$English_{\mathbf{V}}$	Albert Sauter – 🗆 ×
	Master object ID 456789	Master object name ID numble Gold 345678	r / Name 🕄 9345678943567
$\widehat{\basis}$	Measurement data		
88	Reference liquid Methanol	Density (Reference liquid) Measure 0.8 g / cm <sup>3</sup> 256.71	ment in air g
	Measurement in air (Tare weight) 0.00 g	Measurement in air (Gross weight) Measure 256.71 g 234.32	ment in liquid g
¢	Measurement in Liquid (Tare weight) 0.00 g	Measurement in Liquid (Gross weight) Density 234.32 g 11.445	69 g / cm³
(jr	Temperature of reference liquid 11 °C	Outside temperature 21 °C	
	Weighing device data	User information	
	Internal code 3UANR45678 Model name Serial number KDP 3000-2 3245678	Result generated by Albert Sauter on 2022-11-25 17:39:39 KERN & Sohn GmbH, Ziegelei 1, Balingr sohn.com, https://www.kern-sohn.com	en, Germany, 72336, +49 7433 99330, info@kern- v
EASY TOUCH	Auto print Update object in master memory	Back Print	Export as PDF Save

For example, the reference liquid, the temperature and density will be updated in the master memory and can be utilized for future purposes.

### 3.6.5 Auto print

The user will have an option to save and print on a single click. This allows the user to print the data with the measurement ID.

	Density Density > Result		English V Rater Admin X
	Master object ID 456789	Master object name Gold	ID number / Name 3456789345678943567
ନ	Measurement data		
	Reference liquid Methanol	Density (Reference liquid) 0.7972 g / cm <sup>3</sup>	Measurement in air 234.35 g
	Measurement in air (Tare weight) $0.00 \ g$	Measurement in air (Gross weight) 234.35 g	Measurement in liquid 184.63 g
ŵ	Measurement in Liquid (Tare weight) 0.00 g	Measurement in Liquid (Gross weight) 184.63 g	Density 4.70781 g / cm³
ŀ	Temperature of reference liquid 14 °C	Outside temperature 21 °C	
	Weighing device data	User information	
	Internal code 3JUNNR45678 Model name Senial number KDP 3000-2 3245678	Result generation Albert Sauter on 2022-11-2 KERN & Sohn GmbH, Z sohn.com, https://www	nd by 15 17:42:41 Jiegelei 1, Balingen, Germany, 72336, +49 7433 99330, info@kern- v.kern-sohn.com/
KERN EASY TOUCH	Auto print Update object in master memory	Back	Print Export as PDF Seve

Once the save button is clicked, the balance is again on weighing mode.

### 4.0 Determine the density of liquid matter

The start screen for density determination appears where you can define the type of object for which the density has to be determined.

• Choose the option as "liquid"

### 4.1 Defining the sinker object

• Click on the "liquid" option in the screen to measure the density of liquid.

j Š	Density Home				English~	Ilbert Sauter	□ ×
	Density						
ନ		Select the kind of density mea	surement	Choose the object from memory			Reference liquid
		Set the volume of the sinker ob	oject				۵
		Sinker name * Please enter sinker name		Choose the sinker object from memory			Sinker object
Ő		Temperature *	Unit *	Volume (in cm <sup>3</sup> ) *			Reset
(];		Add sinker object to master	er memory	400			
KERN EASY TOUCH					Back	Save & proceed	

• The below fields appear for the users allowing them to enter the new sinker object details



as such the "sinker object name", "temperature" and "volume".

• Now you can fill in the following details to create a new sinker object.

к С	Density Home		English ~ Albert Sauter	
	Density	Select the kind of density measurement		Reference
		Solid Solid Liquid		liquid
		Set the volume of the sinker object Sinker name * Iron Choose the sinker object from memory		Sinker object
ŝ		Temperature *         Unit *         Volume (in cm <sup>1</sup> ) *           21         °C         400		Reset
(),		Add sinker object to master memory		
KERN EASY TOUCH			Back Save & proceed	

### Sinker object name

The user can enter a sinker object name for the object in which the fluid density can be determined.

#### Temperature

User can define the temperature of the sinker object. Kindly note, user can define various temperature to the single sinker object.

#### Volume

The user can define the volume of the sinker object. User might be able to define the volume according to the temperature of sinker object. User will have the provision to add multiple volumes aligning with temperatures to a single sinker object.

### 4.2 Add sinker object to master memory

This allows you to save the created sinker object in master memory and it can be reused in the density function.



	Density Home						$English \lor$		Albert Sauter Admin		
	Density	Select the kind	of density meas	urement							
$\widehat{\mathbf{G}}$		🔘 Solid	Eiquid			Choose the object from memory					Reference liquid
		Set the volume	of the sinker ob	ject							Sinker
		Sinker name * Iron				Choose the sinker object from memory					object
ţĊ;		Temperature * 21		Unit * °C	~	Volume (in cm <sup>3</sup> ) * 400					Reset
ŀ		🗹 Add sinke	r object to maste	r memory							
								Back	Save & pro	ceed	

If you enter all the mandatory fields, then "add sinker object to master memory" will be enabled and upon selecting it, the data will be saved in the master memory.

الأ	Density > Measurement of liquid	Enį	glish~ Ibert Sau Admin	iter _	□ ×
			Search by key		8
$\widehat{\ }$	Sinker object	Active sinker object $\lor$		۹	
	Master object name Iron				Add new
ŵ					
(]}					
KERN EASY TOUCH			(	Back	

This can be reused any number of times in the density function.

### 4.2.1 Adding the sinker object in memory

• Choosing the "sinker object" icon will redirect to the screen where the user can add the various sinker objects used for finding the density of liquid.



	Density Home					English	All Add Add Add Add Add Add Add Add Add	o <b>ert Sauter</b> min		
	Density									
		Select the kind of density	measurement							(+) Reference
		Solid O Lic	uid		Choose the object from memory					iiquiu
		Set the volume of the sink	er object							) Sinker
		Sinker name * Please enter sinker name			Choose the sinker object from memory					object
<u>نې</u>		Temperature *	Unit *		Volume (in cm <sup>2</sup> ) *					С
182		21	°C	$\sim$	Please enter the volume					Reset
		Add sinker object to	naster memory							
			indister memory							
KERN EASY TOUCH						(	Back	Save & pro	ceed	

• Click on the "add new" and enter the sinker object name, volume, and temperature. User will be having the provision to define multiple volumes in alignment with the temperature.

الأ	Density Density > Measurement of liquid		English~ Albert S	auter _	
			Search hy key		2
$\widehat{\baselinetic}$	Sinker object	Active sinker object $\lor$		۹.	(+) Add new
	Master object name Iron				
۲Ċ۶					
KERN EASY TOUCH				Back	



	Density Density > Measurement of liquid	English	<ul> <li>Albert Sa</li> <li>Admin</li> </ul>	auter – ⊡ ×
		Set the volume of the sinker object		8
ନ	Sinker object	Sinker name * Steel mini rod		
	Master object name Iron	Define volume and temperature		
		Volume (in cm <sup>•</sup> ) * Temperature * 300 22	Unit * °C V	Add
ŵ				
Ū.,				
KERN EASY TOUCH			B	lack Save

• Click on save to save your sinker object after your addition of temperature and its respective volumes.

الأ	Density Density > Measurement of liquid			English~ Albert Sa	auter	
						8
	Sinker object		Active sinker object $\sim$	Search by key	٩	÷
	Master object name	Master object name				Add new
ŌŌ	Steel mini rod	Iron				
ŝ						
Ē						
EASY TOUCH					Back	

• The data will get saved and is contributed for reuse.

### 4.3 Utilizing the added sinker object from memory

The user might be able to pick the sinker object from the memory where the user has already predefined the list of sinker objects and its properties what is being used frequently



	Density Home				$English_{\mathbf{\vee}}$	Albert Sauter Admin	- 🗆 X
	Density						
		Select the kind of density me	easurement				(+) Reference
		🔾 Solid 🛛 🔘 Liquid	1	Choose the object from memory			iiquia
60		Set the volume of the sinker	object				Sinker
		Sinker name * Please enter sinker name		Choose the sinker object from memory			object
ţ.		Temperature *	Unit *	Volume (in cm <sup>3</sup> ) *			$\bigcirc$
		21	°C 🗸	Please enter the volume			Reset
Ū;		Add sinker object to ma	ster memory				
EASY TOUCH						Back Save & proceed	

### Steps to utilize the sinker object

• Redirect to the home screen and now choose the weighing object type as "liquid".

ر ۲ ۲	Density Home			English - Englis
	Density	Select the kind of density mass	surament	
ନ		Solid O Liquid	Choose the object from memory	Reference liquid
		Set the volume of the sinker obj	ject	۵
		Sinker name * Please enter sinker name	Choose the sinker object from memo	Sinker object
ŵ		Temperature *	Unit * Volume (in cm <sup>3</sup> ) *	
Ē.		21	°C ✓ Please enter the volume	nesel.
		Add sinker object to maste	er memory	
KERN EASY TOUCH				Back Save & proceed

- Click on "choose the sinker object from memory", you will be redirected to the screen where you can select the sinker object from the memory.
- User will be provided with the search option to search the required weighing object.



	Density Density > Measurement of liquid		English V Albert Sa	auter
			Search by key	8
ନ	Sinker object		Active sinker object	Q
	Master object name Steel mini rod	Master object name Iron		
Ø				
(jr				
KERN EASY TOUCH				Back

- User will be redirected to the predefined list where the user can choose the respective temperature and volume.
- Select the temperature of sinker object from the list of temperatures which are already defined in the sinker object or input new values for temperature and volumes and then proceed

	Density Home				English	Albert Sauter Admin			×
	Density			Select any of temperatu	ire for sinker object				8
ନ		Select the kind of density measurement	Choose	Iron Temperature	Volume				
				21 °C	400 cm	j <sup>3</sup>		>	
		Set the volume of the sinker object Sinker name *							
Ő		Iron	Choose the						
şÕt		Temperature 21 °C	Volume (in cm <sup>3</sup> )						
œ					0	r			
				Other temperature					
				Temperature * Enter temperature	Unit <sup>●</sup>	Volume (in cm²) * Please enter the volume			
				Update object in maste	er memory				
KERN EASY TOUCH						Close	A	pply	

Kan and a second	Density Home		English∨ 💽 Albert Sauter – ⊐ ×
	Density		
ŵ		Select the kind of density measurement	(→) Reference
		Solid  Liquid Choose the object from memory	inquis
ēð		Set the volume of the sinker object	Sinker
		Sinker name * Iron Choose the sinker object from memory	object
ŝ		Temperature Volume (in cm²) *	() Reset
m.		21 °C Q 400	
Ur			
KERN			Back Save & proceed

• The sinker objects and its respective properties would be auto populated so the user might start finding the density by clicking on the "save and proceed"

الأ	Density Home	English v 💭 Albert Sauter Admin – E	B X
	Density		
		Select the kind of density measurement	(+) Reference
		Solid     Ulquid     Choose the object from memory	
ŌŌ		Set the volume of the sinker object	Sinker
		Sinker name * Iron Choose the sinker object from memory	object
ţĜ	Г	Temperature Volume (in cm <sup>3</sup> )*	Reset
ţŢ,		21 °C Q 400	
	L		
EASYTOUCH		Back Save & proceed	

### 4.4 Master memory

The user might be able to pick an object for which the density has to be determined from the memory where the user can predefine list of objects what is used frequently. The object in the memory can be reutilized.

Steps to be followed to create a master data with functional properties

• Click on the database icon and redirect to the master data.



	Database Databases list		$English \vee$	Albert Sauter – 🗆 ×
	Nutrition master	Master data Master data	Dynamic database	Container master Container master
	<b>東帝</b> 冠 Test weight			
	Test weight			
ĝ				
(];•				
KERN EASY TOUCH				

• The below screen would be displayed. The user might be able to see the list of master data objects created here.

الأ	Database     English v     Albert Sauter       Database > Master data list     Admin	- 🗆 X
	Search by key	
$\widehat{\ }$	Active master data	Add master object
	Master object ID     456789     Master object ID       Asser object name     4350789     Master object ID       Gold     Itom on	1
	Description Description Gold from Alomo To make iron rods	Import
Ô		Export
ŀ		کَلِ Template
KERN EASY TOUCH	Back	

- The user can click on the "add master object" to create a new master object.
- The user can fill in the information as such component / object ID, Component / object name, ID number / name, description, container weight and the image for the reference.



	Master database Database > Edit m	aster data		English	✓ Albert Sauter – □ ×
	Edit master dat	a			
ŵ		Component / Object ID *	Component / Object name *		ID number / Name
		201890			432018303810243201830
	Remove image	Description Oil from distillation unit	Container weight 12.9	Unit g 🔻	Assign functions Please select the object type
	Only 'jpeg', 'jpg'& 'png', 'bmp'				Select all Clear all Close
ŝ					Search Q
~~~					Batch & Statistics
œ					Classification
					Count     Density
KERN EASY TOUCH					Back Update

- Now user can select the required function "density" to utilize the properties.
- Upon clicking the function, the functional properties would be displayed. Please choose the object type as "liquid".

×́@₀	Master database Database > Edit master data			English	NV Albert Sauter	- 🗆	×
<u> </u>	Edit master data						
ନ	Component / Object ID * 567890		Component / Object name * Oil		ID number / Name 435678909876543567890		
	Description		Container weight	Unit	Assign functions		
	Remove image Oil from distillation u	nit	12.90	g •	Density		~
ŵ	Density	1					^
ŀ	Solid Liquid						
	Steel mini rod	×					
	Volume Temperature 300.0 22.0 °C						
KERN EASY TOUCH					Back	Update	

- User can choose the respective sinker object and click on submit to save the master object.
- The master object data is being saved and user could be able to view the created master object in the master list.



	Database Database > Master data list		English~	<b>vert Sauter</b> — — — — — — — — — — — — — — — — — — —	□ ×
		Search by l	cey		
ŵ	Activ	/e master data		₩ ≡	Add master
	Master object ID 567890 Master object name Ol	Master object ID 4356789 Iron	•		
	Description Description Oil from distillation unit Gold from Alomo	Description To make iron rods			import
۲Ĝ۶					Export
ŀ					Template
KERN EASY TOUCH				Back	

• Now redirect to the function "density" to utilize the created master data

Ké o	Functions list	English - 💭 Albert Sauter – 🗆 🗙
	Batch & statistics Statistical evaluation of weighing process by splitting the product lot in batches Classification Allows to measure objects relatively to the weight of a reference object	Count Define a reference and detect the count of objects Define a reference and detect the count
	Difference         Dynamic           Allow to find the weight difference of objects and gives the summary on the comparison         Measure a moving object over a long period of time	Formulation Mode different single components are added to a mixture Medical Collect weighing value and ID from the patient, save and transform this data
Ŵ	Percentage weighing         Prepack           Allows to measure objects relatively to the weight of a reference object         Function to avoid manual calculations	Quick dosing         Take-out           Dosing function using target weight         Source weight is removed to reach the target weight
`ىل	Target-count         Tolerance           → So         Define a reference and detect the count of objects and compare it with the target         Allows to measure objects relatively to the weight of a reference object.	Totalisation         Variable           Sum of your measured objects         Allows to create and define new customized units and utilize
	Weighing Standard weighing function	
KERN EASY TOUCH		

The user can be able to pick an object from the memory what is going to be measured.

- Click on the memory and the user will be taken to the master memory to pick from the list of objects predefined. User can click on the required object to be weighed.
- User will be provided with the search option to search the required weighing object.



	Density Home					English∨	Alb Adm	<b>ert Sauter</b> hin	_	□ ×
	Density									
$\widehat{\ }$	Ø	Select the kind of density mea	asurement	Г	Choose the object from memory					Reference
		Deference liquid		L						
		Liquid name *								Sinker object
ŝ		Please enter liquid name	1		Choose the reference liquid from memory					0
ζ <u>Ο</u> ς		21	°C	~	Density (at g/cm²) * 0.00					Reset
();		Add Reference liquid to n	naster memory							
							Back	Save & proce	ed	

• User will be redirected to the previous screen upon clicking the required object and all the details would be auto populated.

	Density Home	English V Ribert Sauter Admin	- 🗆 X
	List of master objects	Search by key	२ 🖁 🗏
	Master object ID 567890 Master object nume Ol  Master object nume Gold  Master object nume Gold  Master object nume Gold  Master object nume Gold  Master object nume	•	
	Description Description Description Description Description To make iron roc	łs	
ŝ			
ŀ			
KERN EASYTOUCH			Back



الأ	Density Home			English~	Albert Sauter	□ ×
	Density					
$\widehat{\mathbf{A}}$		Select the kind of density measurement	Choose the object from memory			Reference liquid
		Applied master object				۵
		Master object ID Master object name 567890 Oil	ID number / Name 4356789098765435			Sinker object
ŝ		Set the volume of the sinker object				Reset
ŀ		Sinker name * Steel mini rod	Choose the sinker object from memory			
		Temperature 22 °C Q	Volume (in cm²) * 300			
KERN EASY TOUCH				Back	Save & proceed	

### 4.5 Finding the density

Once the temperature and the density are defined click on the "save and proceed" button to proceed further.

### **Device features**

The device features can be utilized upon connecting the device with the weighing scale. Indication of "no device being connected" will be displayed.

i i i i i i i i i i i i i i i i i i i	Density Density > Measurement of liquid		English∨	- 🗆 X
	Connect a device to continue No device connected			<b>B</b>
ŵ		e	(0)	
		Air	Liquid	
Ô				
[]. ].		Tare	Zero	
	Applied master object			
	Master object ID 567890 Master object name OI ID number / Name 435678909876543567890		Sinker name Result in air	Steel mini rod 0.00 g
KERN EASY TOUCH	Back		Meas	urement in liquid $ ightarrow$

- The provision to minimize and maximize were also being given in the upper right corner of the screen to get a full view mode
- Now connect a device to proceed with weighing of an object by clicking on the "connect a device to continue"



• Connect a device which is physically connected to the system and now the weighing mode is activated, and screen looks as per the below.



#### Start measurement in air

Place the required object in the weighing scale and after stabilization, then click on "measurement in liquid" to save the weight of the object measured in air and then to proceed measuring the object in the liquid using the sinker object.

	Density Density > Measurement of liquid	d				English~ RIbert Saut Admin	er
	Unternal code 3UANR45678	Model name KDP 3000-2	Max 3 kg	Min O kg	d 0.01 g		<b>B</b>
$\widehat{\mathbf{w}}$				( second	)	()	
				Air		Liquid	
				386.	<b>10</b> g		
ŵ	Min: 0.00 g						Max: <b>3,000.00 g</b>
(];		Tare	<u>0.00</u> g			Zero	
	Applied master object						
	Master object ID					Sinker name	Steel mini rod
	Master object name Oll ID number / Name 4356789098765435678	90				Result in air	386.10g
KERN EASY TOUCH	Back						Measurement in liquid $ ightarrow$

### Measurement in liquid

Upon clicking the measurement in liquid you will be taken to the screen where you can measure the weight of the liquid using the sinker object. Here in this screen the net weight of the object in the sinker object is captured.



ر ال	Density Density > Measure	ment of liquid				English∨	Albert Sauter Admin	- 🗆 ×
	Internal code 3UANR45678	Model name KDP 3000-2	Max 3 kg	Min O kg	d 0.01 g			
ିନ		<b>~</b> -		()				
		Air		Liquid				
				235.7	<b>'4</b> g			
ŵ	Min: 0.00 g			L				Max: 3,000.00 g
ŀ		Tare 0	.00 g				Zero	
	Applied master object	t geet ID geet name / Name 909876543567890					Sinker name Result in air Result in liquid	Steel mini rod 386.10g 235.74g
KERN EASYTOUCH	Back							Find density $ ightarrow$

The user should then click on "density" to view the density of the object

### **Calculate density**

The density value is calculated based on the density of the sinker object, net weight of object in air and liquid based on the gravimetric-archimedean principle and displayed in the result screen.

i i i i i i i i i i i i i i i i i i i	Density Density > Result		English~ 😡 Albert Sauter Admin – 🗆 ×
	Save result data Object data		<b>a</b>
w 00	Dynamic object ID Please enter dynamic object ID	Dynamic object name Please enter dynamic object name	
	Master object ID 567890	Master object name Oil	ID number / Name 435678909876543567890
	Measurement data		
ŝ	Sinker name Steel mini rod	Sinker volume 300 cm³	Measurement in air 386.10 g
(]÷	Measurement in air (Tare weight) 0.00 g	Measurement in air (Gross weight) <b>386.10 g</b>	Measurement in liquid 235.71 g
	Measurement in Liquid (Tare weight) 0.00 g	Measurement in Liquid (Gross weight) 235.71 g	Density 0.5025 g / cm <sup>3</sup>
	Temperature of reference liquid 22 °C	Outside temperature 21 °C	
	Weighing device data	User information	
KERN EASY TOUCH		Back	Print Export as PDF Save

### 4.6 Result data

### Measurement data

An overview of the determined data appears upon clicking on the button "find density".



The below screen appears upon clicking the end button. The user might be able to view the complete result data.

к С	Density Density > Result		English - English Albert Sauter - E X
	Save result data Object data		8
	Dynamic object ID Please enter dynamic object ID	Dynamic object name Please enter dynamic object name	
	Master object ID 567890	Master object name Oil	ID number / Name 435678909876543567890
	Measurement data		
۲¢۶	Sinker name Steel mini rod	Sinker volume 300 cm <sup>3</sup>	Measurement in air 386.10 g
(];	Measurement in air (Tare weight) 0.00 g	Measurement in air (Gross weight) 386.10 g	Measurement in liquid 235.71 g
	Measurement in Liquid (Tare weight) 0.00 g	Measurement in Liquid (Gross weight) 235.71 g	Density 0.5025 g / cm <sup>3</sup>
	Temperature of reference liquid 22 °C	Outside temperature 21 °C	
	Weighing device data	User information	
KERN EASY TOUCH		Back	Print Export as PDF Save

Here, the user might be able to

### 4.6.1 Add object from memory

The user might be able to pick an object from the memory where you can predefine list of objects what you use frequently. The object in the memory can be reutilized.

لاً ∂	Density Density > Result		English V Admin – 🗆 X
	Save result data		8
$\sim$	Object data		
W	Dynamic object ID	Dynamic object name	Add master-object
	Measurement data		
	Sinker name	Sinker volume	Measurement in air
ŝ	Iron	400 cm <sup>3</sup>	235.77 g
~~~~	Measurement in air (Tare weight)	Measurement in air (Gross weight)	Measurement in liquid
m.	0.00 g	235.77 g	184.76 g
Ú,	Measurement in Liquid (Tare weight)	Measurement in Liquid (Gross weight)	Density
	0.00 g	184.76 g	0.12873 g / cm³
	Temperature of reference liquid	Outside temperature	
	21 °C	21 °C	
	Weighing device data	User information	
	Internal code 3UANR45678	Result generate Albert Sauter on 2022-11-27	i by 7 18:23:55
KERN EASY TOUCH		Back	Print Export as PDF Save

### 4.6.2 PDF, print and save

The user can save the data, generate the result data as an PDF or excel or print the results. All the saved results would be found in the dynamic database.



	Density Density > Result	English~ 😡	Albert Sauter - 🗆 🗙
	Master object ID 567890	Master object name ID number / Name Oil 43567890987654	3567890
ନ	Measurement data		
	Sinker name Steel mini rod	Sinker volume Measurement in air 300 cm <sup>3</sup> 386.10 g	
	Measurement in air (Tare weight) 0.00 g	Measurement in air (Gross weight) Measurement in liquid 386.10 g 235.71 g	
ŵ	Measurement in Liquid (Tare weight) 0.00 g	Measurement in Liquid (Gross weight) Density 235.71 g 0.5025 g / cm <sup>3</sup>	
ŀ	Temperature of reference liquid 22 °C	Outside temperature 21 °C	
	Weighing device data	User information	
	Internal code 3UNNR45678 Model name Serial number KDP 3000-2 3245678	Result generated by Albert Sauter on 2022-11-27 18:21:00 KERN & Sohn GmbH, Ziegelei 1, Balingen, German sohn.com, https://www.kern-sohn.com/	ny, 72336, +49 7433 99330, info@kern-
	Auto print Update object in master memory	Back Print	Export as PDF Save

### 4.6.3 Dynamic object ID and name

The user can enter a reference id and name to the weighing objects to stay unique and search based on the dynamic id and name in the dynamic database (after the result data is being saved) regarding the weighing results of an object.

آ ا	Density Density > Result		English∨
	Save result data Object data		6
	Dynamic object ID 456789	Dynamic object name Ofrderid_546789	
	Master object ID	Master object name Oil	ID number / Name 435678909876543567890
	Measurement data		
ŝ	Sinker name Steel mini rod	Sinker volume 300 cm <sup>3</sup>	Measurement in air 386.10 g
ŀ	Measurement in air (Tare weight) 0.00 g	Measurement in air (Gross weight) 386.10 g	Measurement in liquid 235.71 g
	Measurement in Liquid (Tare weight) 0.00 g	Measurement in Liquid (Gross weight) 235.71 g	Density 0.5025 g / cm²
	Temperature of reference liquid 22 °C	Outside temperature 21 °C	
	Weighing device data	User information	
KERN		Back	: Print Export as PDF Save

### 4.6.4 Update object in master memory

The user can be able to save the functional properties of the object in the master memory to reutilize the data by clicking on the "update object in master memory".



	Density Density > Result		English∨
	Master object ID 567890	Master object name Oil	ID number / Name 335678909876543567890
ିନ	Measurement data		
	Sinker name Steel mini rod	Sinker volume 300 cm³	Measurement in air 386.10 g
	Measurement in air (Tare weight) 0.00 g	Measurement in air (Gross weight) 386.10 g	Measurement in liquid 235.71 g
ŵ	Measurement in Liquid (Tare weight) 0.00 g	Measurement in Liquid (Gross weight) 235.71 g	Density 0.5025 g / cm <sup>3</sup>
œ	Temperature of reference liquid 22 °C	Outside temperature 21 °C	
	Weighing device data	User information	
	Internal code 3UANR45678 Model name Serial number KDP 3000-2 3245678	KERN & Sohn Gr sohn.com, https://www.alignedical.com/	generated by : Sauter 22-11-27 18:21:00 mbH, Ziegelei 1, Balingen, Germany, 72336, +49 7433 99330, info@kern- ://www.kern-sohn.com/
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For example, the sinker object, the volume and temperature will be updated in the master memory and can be utilized for future purposes.

### 4.6.5 Auto print

The user will have an option to save and print on a single click. This allows the user to print the data with the measurement ID.

	Density > Result	English~ 😡 Albert Seuter – 🗆 🗙
<b>_</b>	Master object ID 567890	Master object name         ID number / Name           OII         435678909876543567890
$\widehat{\mathbf{G}}$	Measurement data	
	Sinker name Steel mini rod	Sinker volume Measurement in air 300 cm <sup>3</sup> 386.10 g
	Measurement in air (Tare weight) 0.00 g	Measurement in air (Gross weight) Measurement in liquid 386.10 g 235.71 g
ŝ	Measurement in Liquid (Tare weight) 0.00 g	Measurement in Liquid (Gross weight) Density 235.71 g 0.5025 g / cm <sup>3</sup>
ſ <b>ŀ</b>	Temperature of reference liquid 22 °C	Outside temperature 21 °C
	Weighing device data	User information
	Internal code 3UANRA5678 Model name Serial numb KDP 3000-2 3245678	rr KERN & Sohn GmbH, Ziegelei 1, Balingen, Germany, 72336, +49 7433 99330, info@kern- sohn.com, https://www.kern-sohn.com/
KERN EASYTOUCH	Auto print Update object in master memory	Back Print Export as PDF Seve

Once the save button is clicked, the balance is again on weighing mode.

### 5.0 Dynamic data

• All the saved data would be found in the dynamic database. Click on the database icon and navigate to the dynamic database



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• Click on the filter and the below screen would be displayed. Kindly note, the latest function used would be displayed by default.

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<b>E</b>	Eunction Density (2)	Search by -	Sort by Created on - Descending	Erom.date 2021-11-27	To date 2022-11-27	
ŝ	Measurement ID	Master object ID 📰	Dynamic object ID	Created on	User name 📰	Export
	Density-w27112022182512	567890	54678	2022-11-27 18:25:12	Albert Sauter	
ШО	Density-w27112022175057	456789	567890	2022-11-27 17:50:57	Albert Sauter	
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• Choose the function density from the functions list and set the other desired filters and the required sort of option



	Database Database > Reports list			English~ Albert Sauter – 🗆 X
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$\widehat{\mathbf{G}}$	Measurement ID	Master object ID 📰	Dynamic object ID 📰 Cri	Functions Density V
	Density-w27112022182512	567890	54678 20	2 Search by keyword Please enter the keyword to search X
	Density-w27112022175057	456789	567890 20	2
				From date         To date           2021-11-27
ŝ				Sort by
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÷تل)				Ascending order     O Descending order
KERN EASY TOUCH				Back Reset Submit

• The list of dynamic data saved against the set filter would be found here

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	Eunction Density (2)	Search by -		Sort by Created on - Descending	Erc 20	From date 2021-11-27		27 88 🗎	
	Measurement ID 🛛 🗐	Master object ID	T.	Dynamic object ID	Created on	₩1.	User name	TI.	Export
	Density-w27112022182512	567890		54678	2022-11-27 18:	2022-11-27 18:25:12			
8	Density-w2/11/2022175057	456789		261890	2022-11-27 17:	50:57	Albert Sauter		
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• Click on the required transactional data to see the complete set of result details.



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