Operation Manual
Pressure Meter

Part 2

Wöhler M 603

The Measure of Technology

Table of Content

1 Customer menu

The customer menu offers the possibility to create customer folders, to select custom-ers, to display and print already stored measured values or to transfer them.
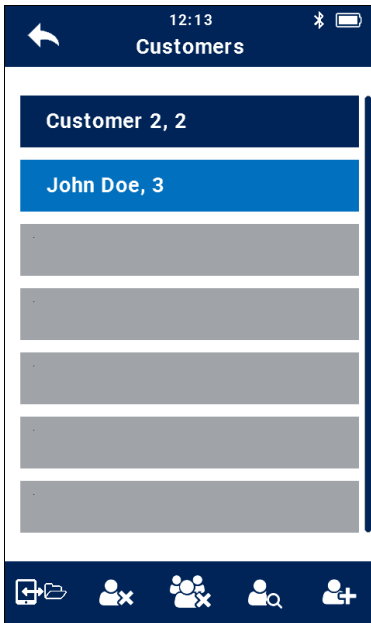
Measurement data can be assigned to different customers and projects in the device. The assign-ment is done via the corresponding customer and project numbers.

Fig. 1: Customer Menu

1.1 Set up a new customer

NEW CUSTOMER

• Click on the NEW CUSTOMER icon to create a new customer.
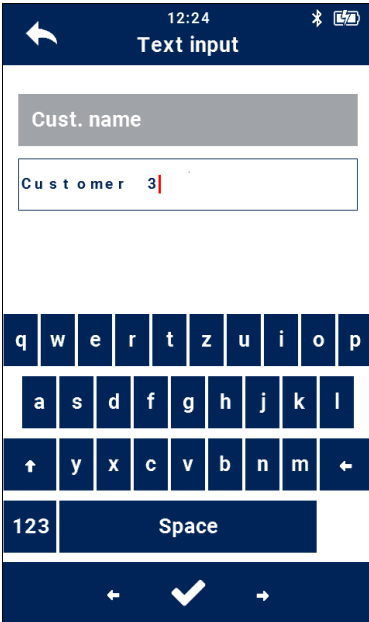
- One after the other, enter the customer name, the corresponding customer number, the project name and the project number and confirm each with the check mark.

Fig. 2: create a new customer file

1.2 Search function: customer, project, customer number, project number

FIND CUSTOMER

- In the customer menu click on the "**Find customer**" icon.
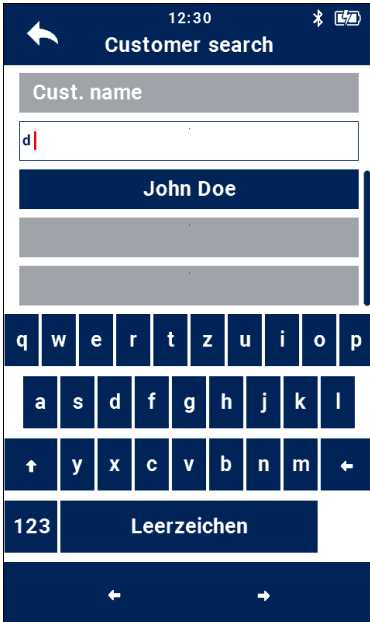
Fig. 3: customer search

- Enter any known part of the customer name. You do not need to be case-sensitive.

The first matches are now displayed. With the scroll bar you can scroll through the matches and select the desired customers.

PROJECT SEARCH

After selecting the customer, you can search the project in the same way.

- Click on the icon **PROJECT SEARCH**.

Search by customer number and project number

☞ *NOTE!*
In the settings menu, you have the possibility to set that the search should always be carried out with the customer number or the plant number, cf. chapter 3.1.

1.3   Delete customer

In the customer menu it is possible to cancel a selected customer.

- Click on a customer to select him.
- Click on the DELETE CUSTOMER icon.

1.4   Delete all

- To delete all customers with the stored data, click the DELETE ALL icon in the customer menu.

1.5   Select customer before measurement

You have the possibility to select a customer before a measurement and then save the measured data under this customer after the measurements.

- Click on the customer in the customer menu

The customer symbol will appear in the top right of the header in all menus, submenus and in the results display. The customer symbol does not appear during active measurements.

2 Save data in the Readings Menu

Readings Icon

If the user accepts a record, the analyzer will enter the readings menu automatically. It is also possible to enter the readings menu by clicking on the readings icon in the main menu.

- Open a customer in the customer menu and go to a project.
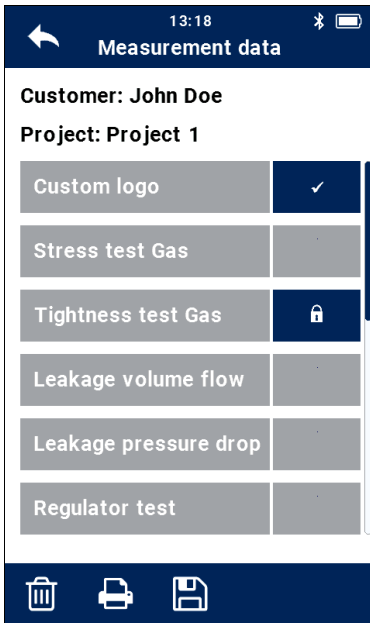- Click on the Measurement data icon.

Fig. 4: Measurement Data

The data can be managed in the measurement data menu. A list of all possible measurements is displayed here. Measurements already carried out, the result of which has been printed but not saved, are marked with a "tick". Saved measurements are marked with a lock. Only the data of the marked or saved measurements can be deleted, printed or saved.

The fields "Logo" and "Measurement representative" (bottom field) are marked with a check mark according to the factory setting.

- If you do not want the logo and the field for the measurement representative to appear on the printout, remove the corresponding check mark by tapping the button. This setting will be retained even after the device is switched off and on again.

2.1 Delete measurement data

Delete Icon

- Click on the Delete icon to delete all selected measurement data.

☞ *NOTE!*
If you do not want to delete a record, mark it beforehand by tapping on the corresponding lock behind the measurement.

2.2 Print results

Print Icon

- Click on the Print icon to print all stored records on the Wöhler TD 100 printer.

☞ NOTE!
If you do not want to print a record, select it beforehand by tapping the corresponding lock behind the measurement.

A print preview is displayed in the display.

- Click on the print icon if you want to start the printout on the Wöhler TD 100 thermal printer.

☞ NOTE!
When the measurement is stopped, you can also print the records directly from the measurement view without saving them first.

☞ NOTE!
Position the printer so that there is no obstacle between the infrared interfaces of the printer and the Wöhler M 603.

2.3 Save measurement data in the customer menu

- Click on the Save icon to assign all selected measurements to a customer or an installation. The view now changes to the customer menu. Here you can create new customer folders or assign the measured values to an existing customer.

3 Menu „Settings"

3.1 Device
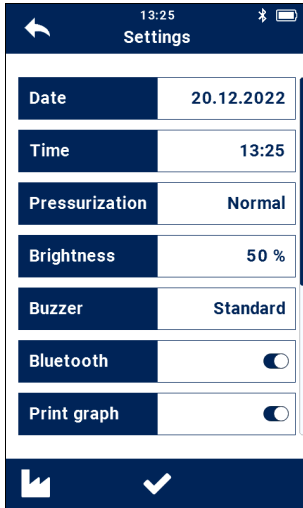
Fig. 5: Device Settings
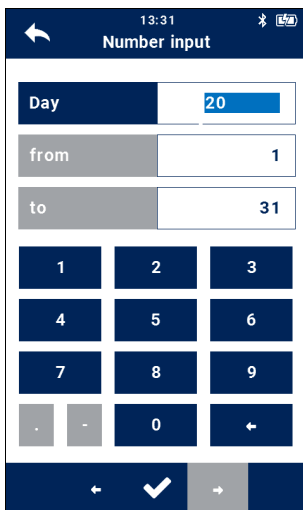
In the submenu "Device" all necessary settings for the device and the measurements can be made.

Only 7 of the 14 parameters are displayed in the display view.

- Swipe your finger across the display to view additional sub-items.

- To change the settings, click the corresponding field.

Fig. 6: Input field

An input or selection field opens.

The active input field is highlighted in light blue.

- Enter your input using the number field. The existing entries are overwritten automatically.

- Click on an input field to activate or deactivate it.

- To save the changed settings and exit the settings menu, click on the check mark in the footer.

Factory settings

- If you want to reload the factory default settings, tap the **Factory Settings icon** in the footer.

Date

Enter the date with day, month and year.

Time

Enter the time in 24h format with hour and minutes.

Pressurization

Switch between normal pressure measurement (1 new measured value per second) and fast pressure measurement (4 measured values per second)

Brightness

Adjustment of brightness from 1 - 100 %.

☞ *NOTE!*
A bright display will increase the power consumption.

Buzzer

Possibility to turn the beep quiet, loud or off.

The beep sounds when the user gives commands via the touch screen.

Bluetooth

The Bluetooth module can be activated/deactivated here.

☞ *NOTE!*
Pressure testing on water pipes with the Wöhler SC 660 is only possible when the Bluetooth module is activated.

Customer choice

Selection whether the search criterion in the customer menu should be the customer name or the customer number.

Project selection

Selection whether the search criterion for the projects should be the project name or the project number.

Maintenance instructions

If the maintenance note is activated, a note on the recommended date of the next maintenance appears in the main menu. The maintenance date is either 15 months after the date of production and purchase or 12 months after the last calibration. If the maintenance date is exceeded, an exclamation mark appears next to the maintenance date.
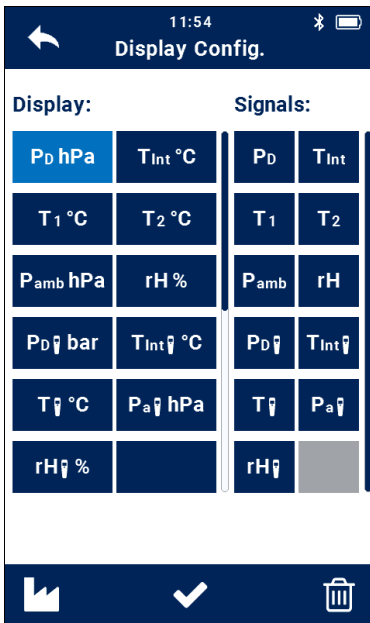
Display configuration

Fig. 7: Display configuration

Here the user can configure the readings display according to his needs:

- Click on "Change" to get to the display configuration view.

- In the left column (display), click on the button with the measured variable that should no longer appear in this position in the display.

The button is now highlighted in light blue.

- Then click in the right column (Signals) on the measured value that is to replace the selected value in the left column.

The tapped variable now assumes the position of the key highlighted in light blue in the display.

- To change the unit, click several times in the left column (display) on the button whose unit should be changed.

☞ *NOTE!*
It is not possible to select the units for all measured values.

The buttons in the footer have the following functions:

Load factory settings: Restore the default settings

Confirm the changes and return to the setup menu.

Remove marked value: Delete value from the display view.

Logo

- Click on "Change", enter your company name and confirm with OK.

☞ *NOTE!*
During text input, only those letters are taken into account that can be seen in the white input field.

Your logo will then appear on all printouts.

3.2 Smart Connects

Fig. 8: Connect Wöhler M 603 to Wöhler SC

- In the "Smart Connects" menu, a connection to one or more Wöhler Smart Connect units can be established.
- Switch on the Wöhler SC unit to be connected.
- Tap on the + sign.
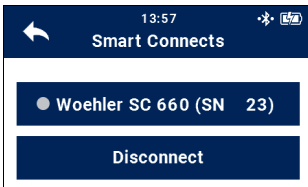- Tap "Disconnect" in the same menu to disconnect again.

Fig. 9: Wöhler M 603 connected to Wöhler SC 660

After a short search, the Wöhler M 603 connects to the Wöhler SC 660 units within range.

The connected units are displayed under Settings > Smart Connects.

☞ *NOTE!*
The connection icon flashes in the display of the Wöhler SC if a connection has not yet been established. As soon as the connection is established, the icon lights up permanently and a Bluetooth icon appears.

The connection now remains even after switching off and on again.

- Tap on "Disconnect" if you want to disconnect the connection.

3.3 Calibration

In the submenu "Calibration" all sensors can be digitally calibrated. To access the calibration menu, a company code must be entered. This avoids accidental incorrect settings.

☞ *NOTE!*
Calibration is only to be carried out at the factory or at authorized service points.

4 Menu "Device Check"

4.1 Device information

Here you will find important information about the Wöhler M 603 and calibration.

4.2 Tightness test

Fig. 10: Device Check with Plastic bottle

Before the Wöhler M 603 is used the tightness of the device, of the measuring hoses and of the connectors should be tested. Please, proceed as follows:

- Switch on the Wöhler M 603.
- Close a custom PET bottle of at least 1 liter capacity with the sealing cone PA 1 (blue, small) and connect it via a hose to the over-pressure socket (+) of the Wöhler M 603.

☞ NOTE!
Do not screw the sealing plug too tightly into the bottle. Normally, two turns of the thread are sufficient when screwing it in. If the plug is screwed in further, it loses its conical shape and pops out of the bottle.

- Select Device Check > Tightness test and check the tightness of the Wöhler M 603
- The measured leakage rate should not exceed 0.1 l.

Do not perform gas line measurements, if the device has not passed the tightness test described above.

☞ NOTE!
To avoid temperature changes, do not touch the bottle during the test.

4.3 Smart Connect Info

If a Wöhler Smart Connect is connected to the Wöhler M 603, the device information for the Smart Connect is displayed under this item.

5 Troubleshooting

Error message	Possible reason	Solution
Batteries low	Disposable or rechargeable batteries are empty.	Recharge batteries.
Stabilization not possible. - The loss of pressure is too high.	During the measurement the pressure is falling, so that no measurement will be possible.	Check connections.
ATTENTION! Overpressure	High pressure warning when pumping manually.	Deflate pressure

6 Maintenance

To ensure the proper functioning of the Wöhler M 603, the device must be subjected to regular maintenance:

6.1 Maintenance list

Interval	Maintenance work
On demand (user)	Cleaning the housing with a damp cloth and a mild detergent.
1x per year (factory)	Send the device to one of our service centers for verification and calibration.

7 Warranty and Service

7.1 Warranty

Each Wöhler M 603 will be tested in all functions and will leave our factory only after extensive quality control testing. The final control will be recorded in detail in a test report and delivered with any unit.

If used properly, the warranty period for the Wöhler M 603 will be twelve month from the date of sale. Not covered by the warranty are batteries and defects of the pressure sensor caused by overpressure.

This warranty does not cover the freight and packing costs when the device is sent to the factory for repair.

Service by non authorized personnel or making modifications to the analyzer voids any warranty.

7.2 Service

Wöhler has built our reputation on excellence in customer service. Therefore, of course, we are readily available to assist you after the warranty period ends.

- Send us the device, and we will repair it and return it to you with our package service.
- Immediate help is provided by our technical staff over the telephone.

8   Declaration of Conformity

The manufacturer:

WÖHLER Technik GmbH
Wöhler-Platz 1, D-33181 Bad Wünnenberg

declares that the product:

Product name: Wöhler M 603 Pressure Meter

complies with the essential protection requirements laid down in Directive 2014/53/EU of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment.

The following standards have been used to assess the product with regard to the above directive :

EN 61326-1 :2013

ETSI EN 301 489-1 V2.2.0
ETSI EN 301 489-17 V 3.1.1
ETSI EN 300 328 V2.2.2 (2019-07)
EN 62479 :2010

Bad Wünnenberg, 20.12.2022

Dr. Stephan Ester, Geschäftsführer/Managing Director

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