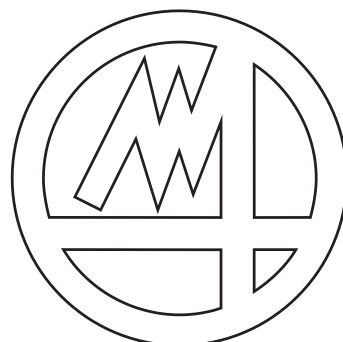


BUILT

**CONTACT MEASUREMENT
TOUCH**



MARPOSS

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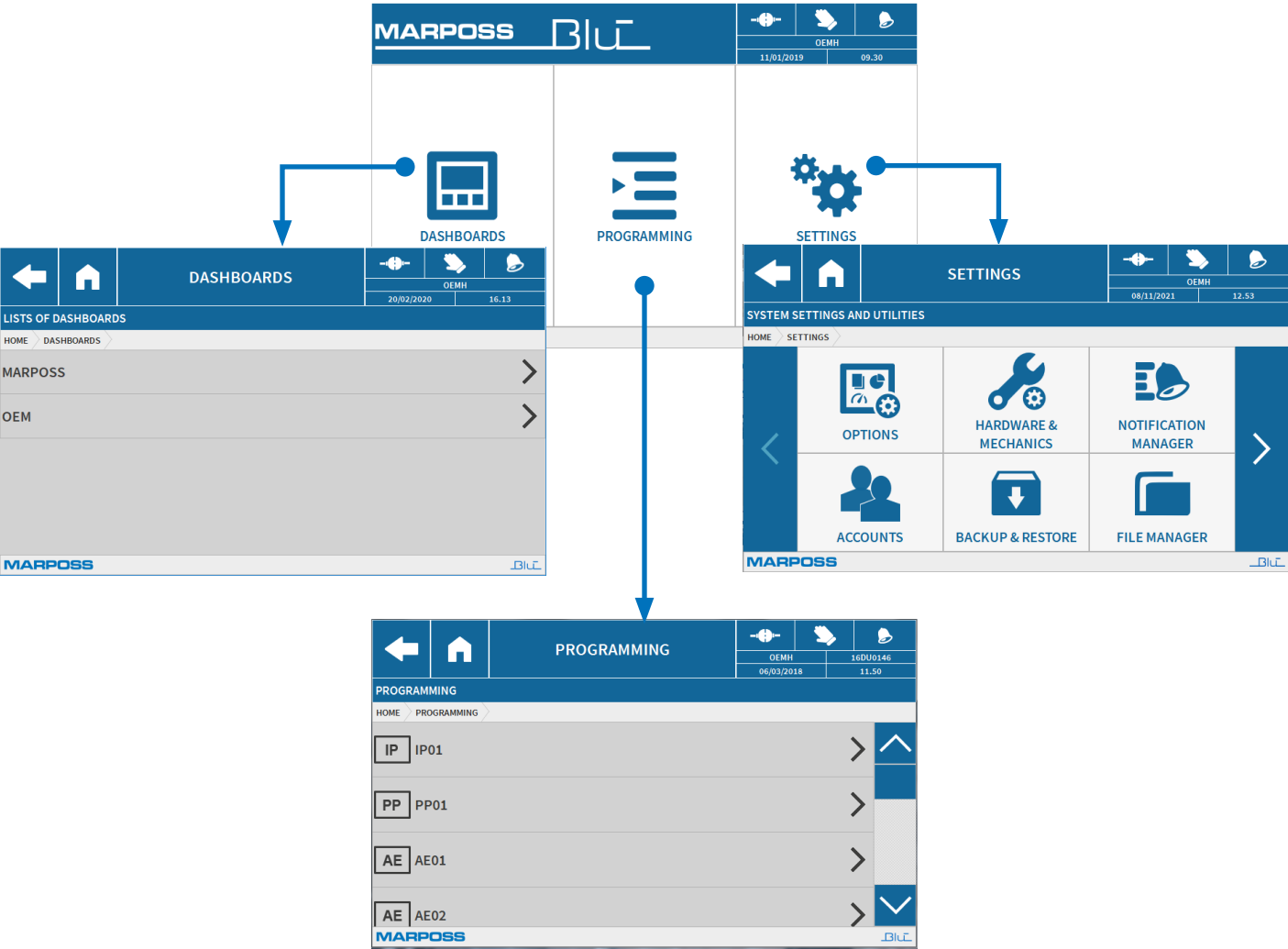
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1 MAIN NAVIGATION CHART



Figg.1. Main menus map

| | | |
|--|--|---|
|  <ul style="list-style-type: none">→ Screens<ul style="list-style-type: none">→ Selection→ Creation→ Modification |  <ul style="list-style-type: none">→ Program instructions<ul style="list-style-type: none">→ (List of available channels) |  <ul style="list-style-type: none">→ Settings<ul style="list-style-type: none">→ Options (see B2 and C2xx)→ Hardware and Mechanics programming (see B2 and C2xx)→ Notification Management (see B2 and C2xx)→ Users (see B2)→ Backup & Restore (see B2)→ File management (see B2)→ Information (see B2)→ Exporting and importing application sets (see B2) |
|--|--|---|

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2 SETTINGS



2.1 Options

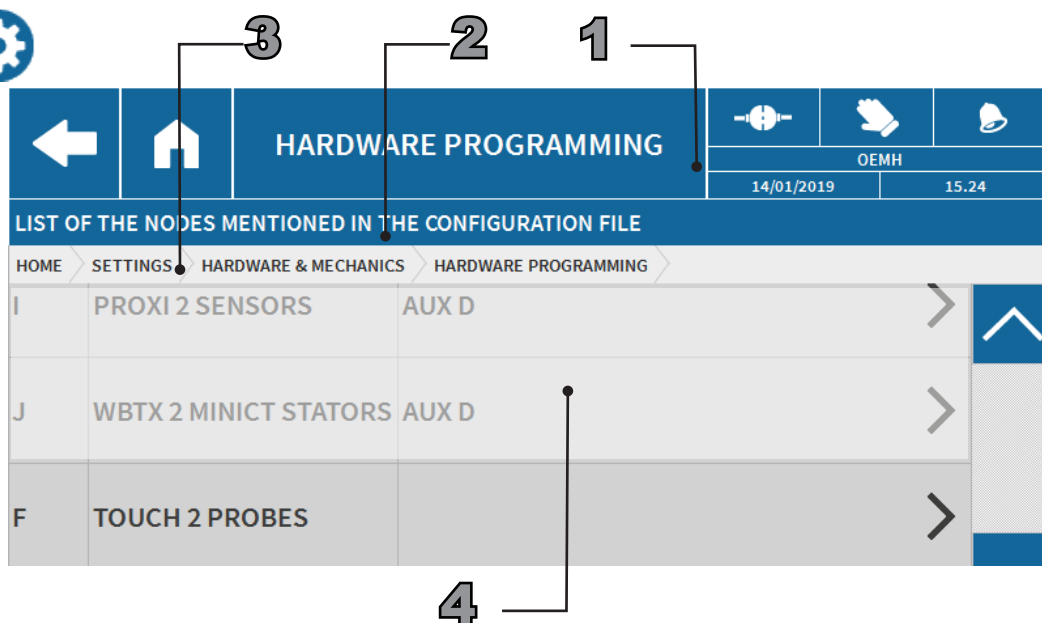


See chap. 3.1 on page 18 part. B2.

2.2 Hardware & Mechanical programming



The **Hardware and Mechanics Programming** screen may be used to select which hardware or mechanical components to intervene on. For a complete description, see Part B2, Chap. 3.2 on page 29. The **HW Programming** screen corresponding to the **TOUCH** node is described below.

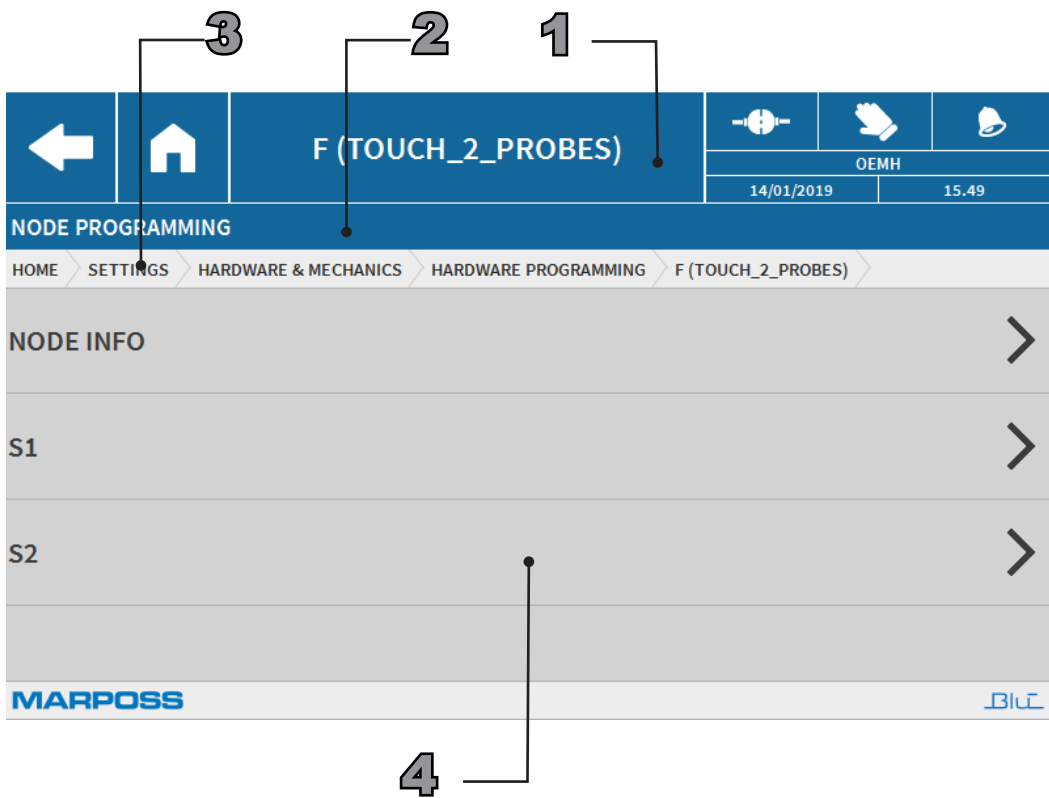


Figg.2. Main **TOUCH 2 probes contact measurement node hardware programming** screen

- 1 Screen title: **Hardware Programming**.
- 2 Messages and descriptions area: List of nodes mentioned in the configuration file.
- 3 Navigation path: *Home* > *Settings* > **Hardware Programming**
- 4 Working area: List of installed nodes. In the example:
 - **TOUCH 2 PROBES**. Contact measurement with two probes application. See para. 2.2.1 on page 6.

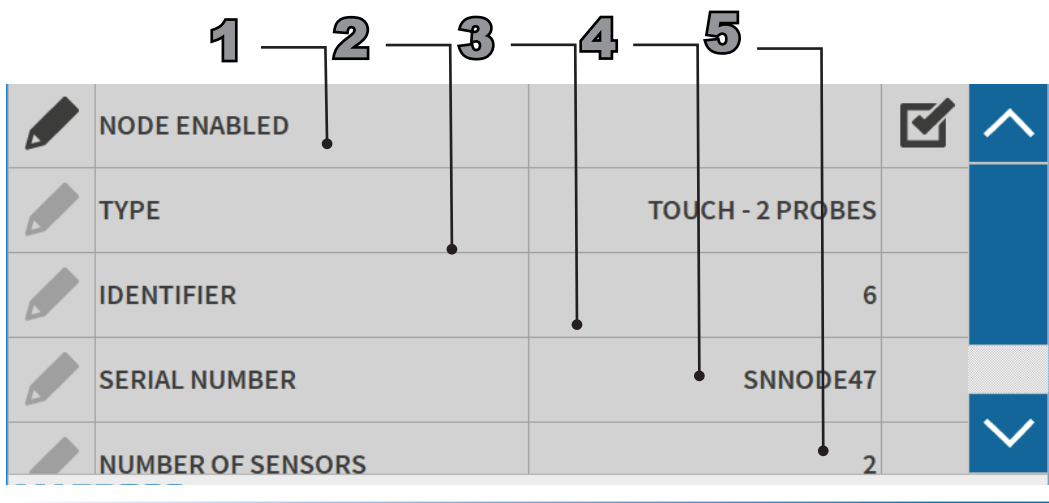
2.2.1 Setting up a TOUCH 2 probes type contact measurement node

Use the **TOUCH 2 Probes** screen to set-up the parameters of the probes and obtain information about the connected node.



Figg.3. Main TOUCH 2 probes contact measurement node set-up screen

1. Screen title: **TOUCH 2 probes**.
2. Messages and descriptions area: Units of the sensor connected to the connector in hand.
3. Navigation path: *Home > Settings > Hardware & Mechanics > HW Programming > TOUCH 2 Probes*.
4. Working area:
 - **Node information.** Use this command to enable the function node and access the corresponding identification information.



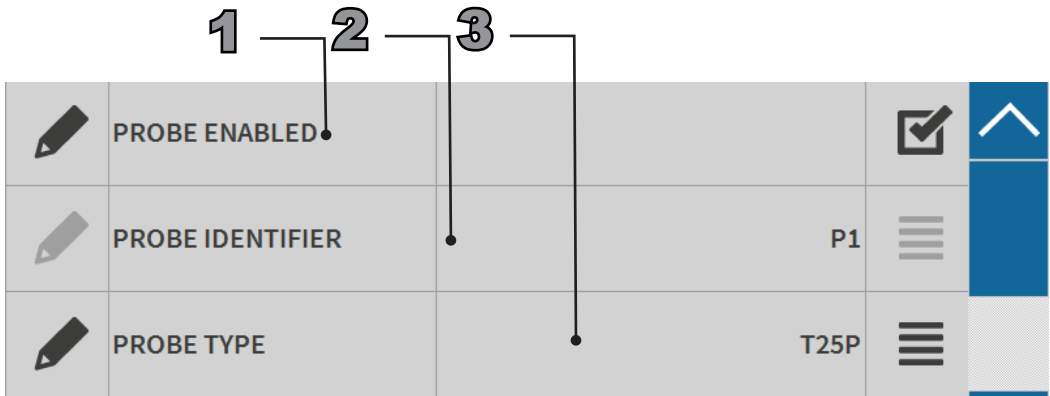
Figg.4. Node information screen

- 1. **Enable node.** Enables/Disables the node functions.

[

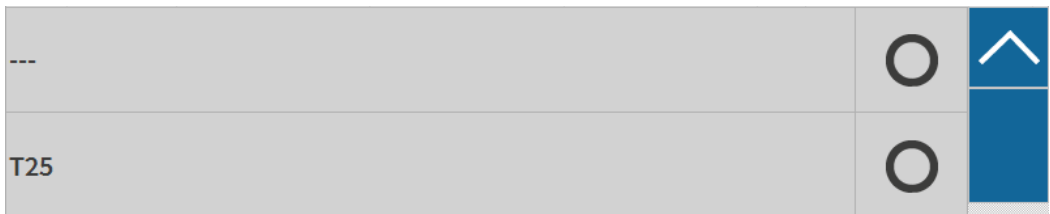
N.B.
Disable the function node only if the node itself is damaged.

- 2. **Type of node.** Displays the node name, as assigned by the configuration file.
- 3. **Node identification number.** Displays the node number, as assigned by the configuration file.
- 4. **Serial Number.** Displays the node serial number.
- 5. **Number of sensors.** Displays the number of sensors that can be connected to the node.
- **S1-S2.** Customisable settings for the selected sensor.



Figg.5. TOUCH 2 probes contact measurement node properties screen

- 1. **Probe enabled.** Enables the probe functions.
- 2. **Probe identifier.** This function displays which probe is associated with the node.
- 3. **Probe type.** Selects which probe to link to the node.



Figg.6. Type of probe to link.

2.3 Notification management



See chap. 3.3 on page 46 part B2.

2.4 Users



See chap. 3.4 on page 51 part B2.

2.5 Backup & Restore



See chap. 3.5 on page 64 part B2.

2.6 File management



See chap. 3.6 on page 74 part B2.

2.7 Information



See chap. 3.7 on page 77 part B2.

3 PROGRAMMING

Use the **Programming** screen to customise the parameters of the sets included in the configuration file.

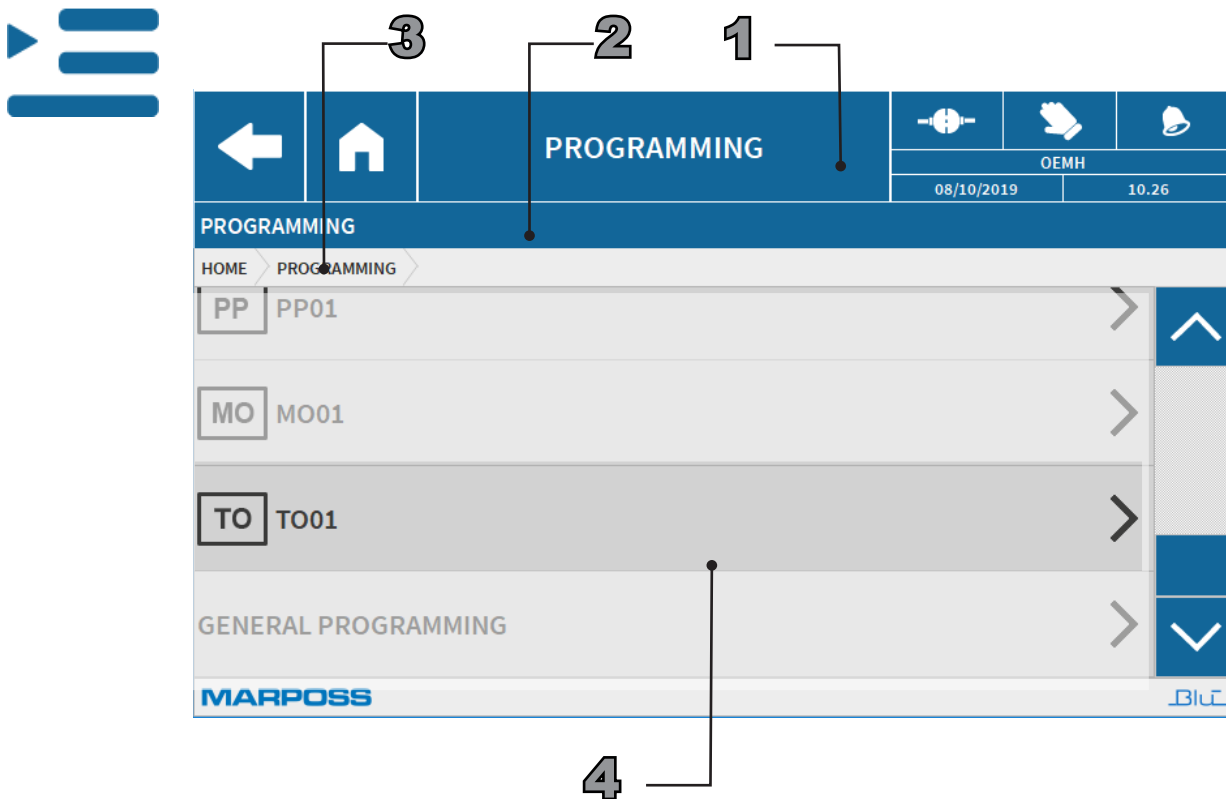


Fig.7. Available nodes for installed system screen

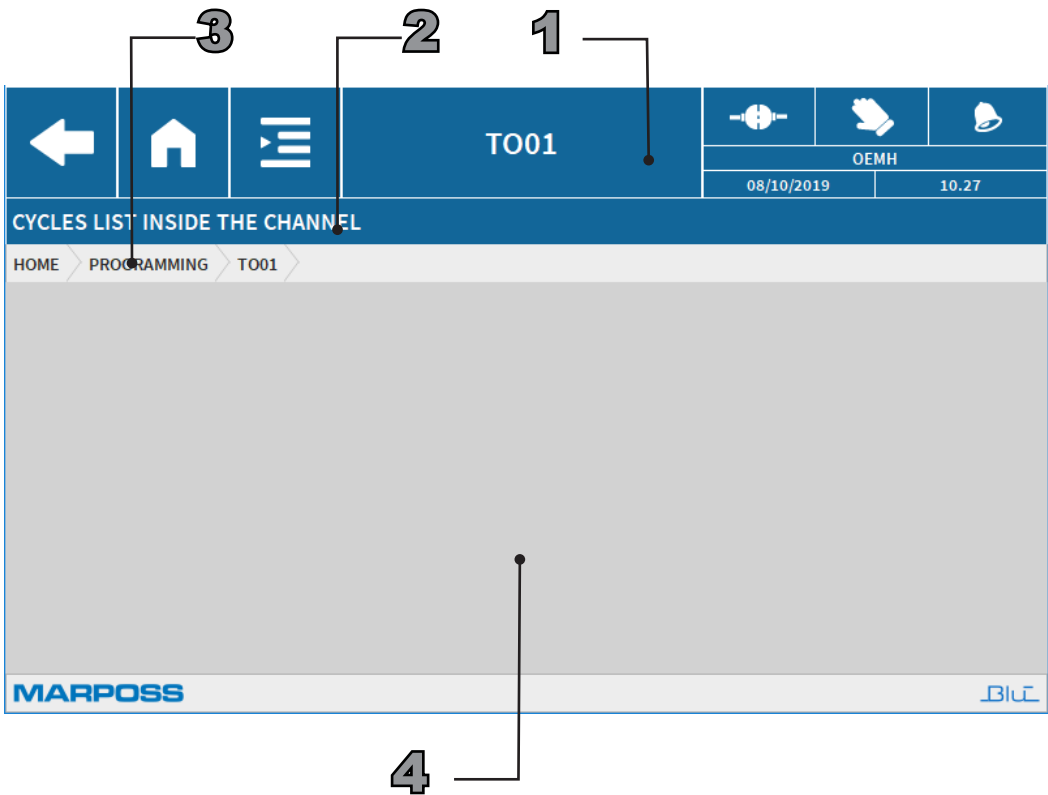
1. Screen title: Programming
2. Messages and descriptions area: Programming
3. Navigation path: *Home* > **Programming**.
4. Working area: List of installed nodes. In the example:
 - **TO0X. Movement Control Measurement** Application See Chap. 3.1.1 on page 10.

3.1 Touch Measurement Application.

3.1.1 List of cycles

TO

Use the **List of Cycles** present in the Channel screen (e.g. **TO01**) the available sets are added to the list of sets. See chap. 3.1.2 on page 11.



Figg.8. Screen displaying a list of the cycles present in a channel before adding a set

- 1. Screen title: **TO0X** (name of the channel).
- 2. Messages and descriptions area: List of cycles present in the channel.
- 3. Navigation path: *Home > Programming > TO0X (name of the channel)*.
- 4. Working area: List of selected sets. In the example: no set added. See chap. 3.1.2 on page 11.

| | | | | | |
|--|--|--|---|---------------|--|
| | | | 0 | TOUCH 1 PROBE | |
| | | | 1 | TOUCH 2 PROBE | |

Figg.9. Screen displaying a list of the cycles present in a channel after adding a set

3.1.2 Available sets



Use the **List of Sets** screen to select those to be included in the cycles list. See Chap. 3.1.1 on page 10.

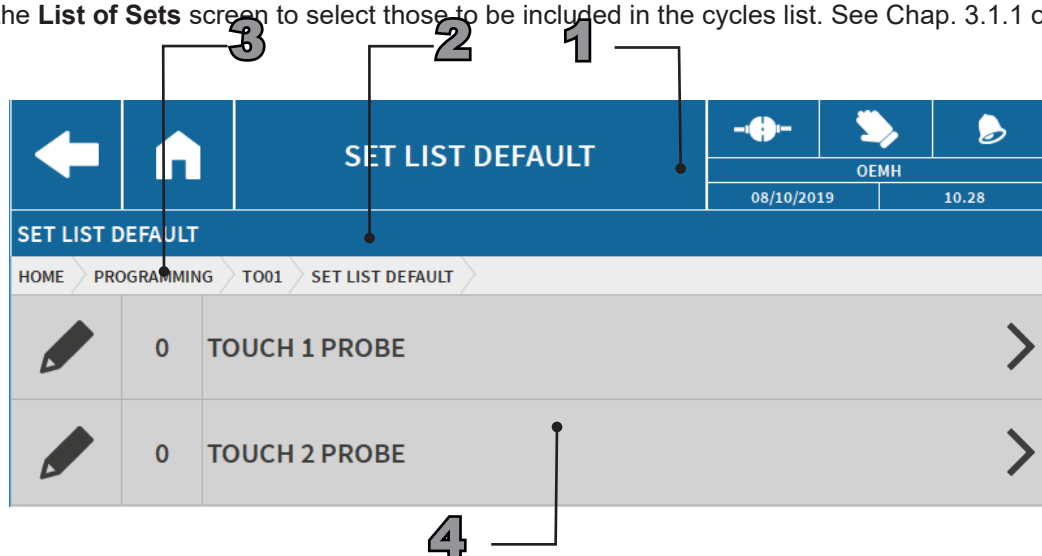


Fig.10. List of available sets. Availability depends on the configuration file

1. Screen title: **List of Sets**.
2. Messages and descriptions area: **List of Sets**.
3. Navigation path: *Home > Programming > TO0X (name of the channel) > List of Sets*.
4. Working area: List of available sets:
 - **TOUCH 1 PROBE**.
 - **TOUCH 2 PROBE**.

3.1.3 Programmable data

The data for the selected set may be customised on the screen corresponding to each individual set.

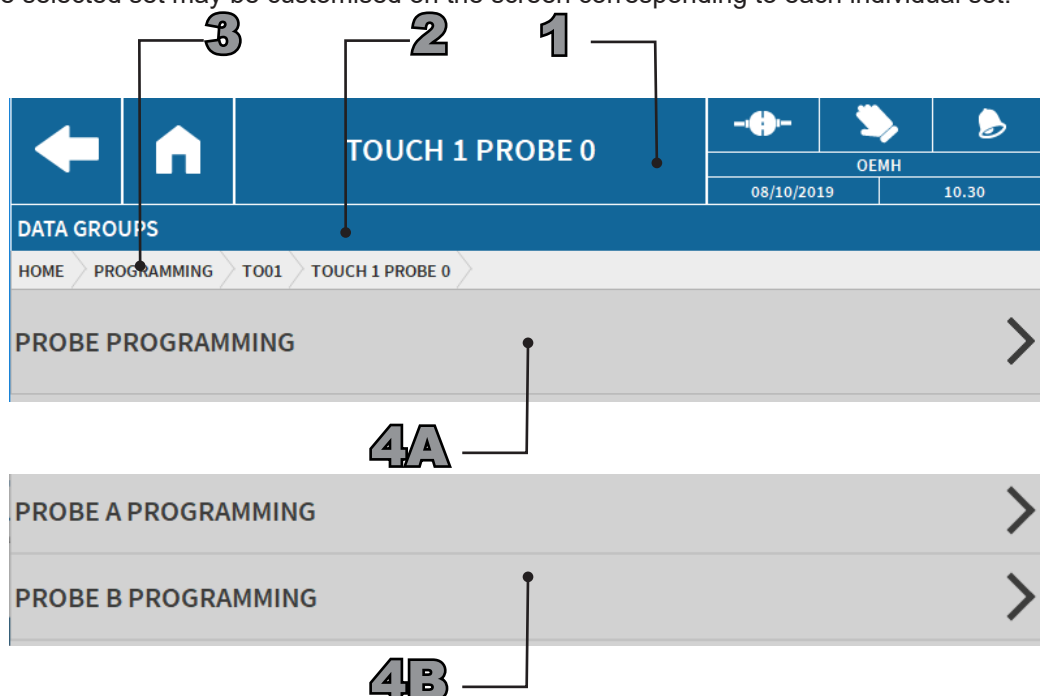


Fig.11. Programmable values screen. 4A = Probe version 1. 4B = Probe version 2.

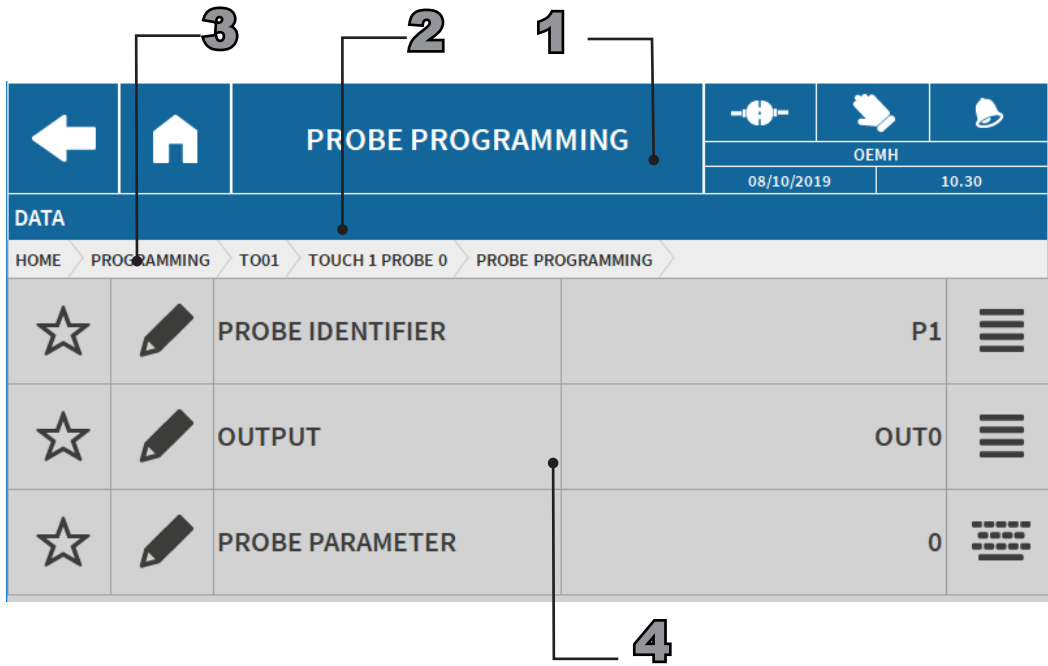
1. Screen title: **TOUCH 1 PROBE**.
2. Messages and descriptions area: Data groups.
3. Navigation path: *Home > Programming > TO0X (name of the channel) > TOUCH 1 PROBE*.
4. Working area: List of available sets:
 - **Probe programming**. See para. 3.1.3.1 on page 12.

3.1.3.1 Probe programming

Available for the following sets:

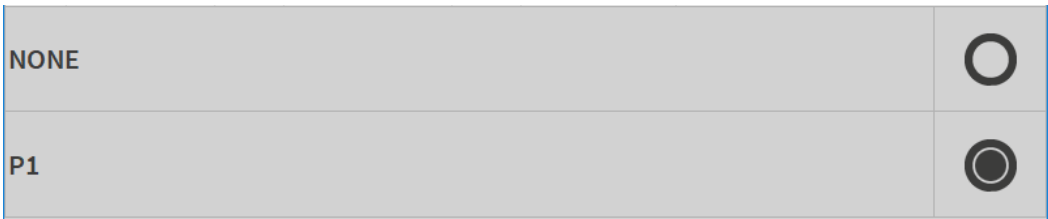
- **Probe programming.**

The **Probe programming** screen contains the data that are common to all the measurement heads in the same Set.



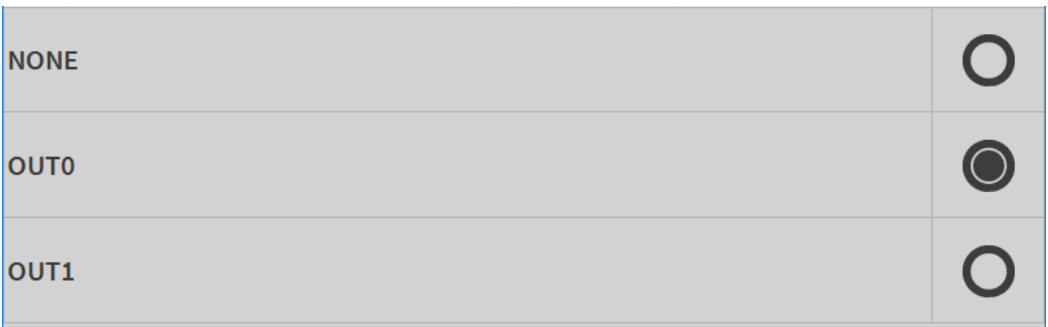
Figg.12. Probe programming data screen

- 1 Screen title: **Probe programming.**
- 2 Messages and descriptions area: Data.
- 3 Navigation path: *Home > Programming > TO0X (name of the channel) > TOUCH 1 PROBE > Probe programming.*
- 4 Working area:
 - **Probe identifier.** Selects which probe to link to the node.

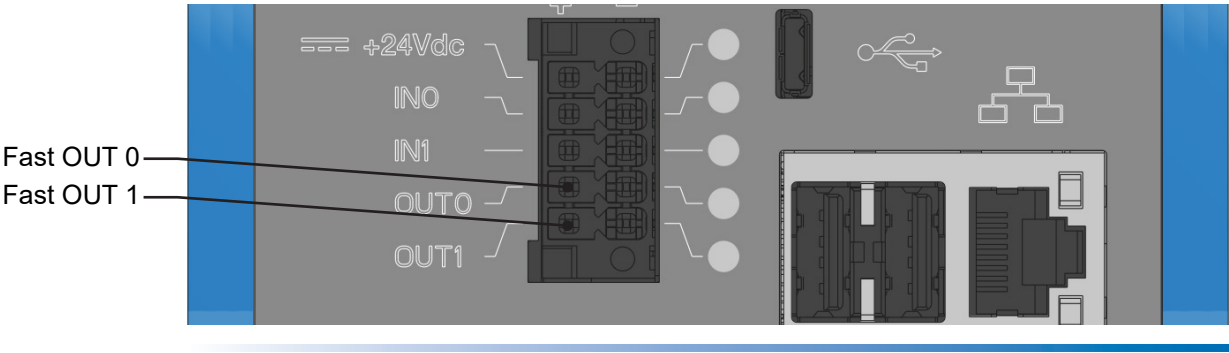


Figg.13. Select probe to associate with the node screen

- **Exit.** Selects which fast output to use on the Master node.



Figg.14. Probe fast output selection



Figg.15. Fast outputs on Master node

- **Probe parameter:** This function is active for T25P probes only. By selecting the most suitable “user set”, it may be used to optimise the probe activity and hence its performance even under extreme operating conditions (noise, touch speed, geometry, and stylus material). See Table 1 on page 13.

PROBE PARAMETERS

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CANCEL

OK

Figg.16. T25P type probe parameters

| Table 1. Selecting User set for T25P probe | |
|--|---|
| User set | DIP-switch 3-4-5 |
| 1 | See doc. 6710021110 attached to the T25P probe. |
| 2 | |
| 3 | |
| 4 | |

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4 ERRORS - ALARMS

4.1 Errors

| Table 2. Errors | | | |
|-----------------|---------------------|--|--|
| Code | Message | Cause | Remedy |
| 1 | Error on outputs | Multiple probes using the same output | The probes must use different outputs |
| 2 | Error on the probes | Multiple probes with the same identifier | The probes must have different identifiers |
| 3 | Probe not connected | One of the probes is not connected | Connect the probe or replace it |

4.2 Alarms

| Table 3. Alarms | | | |
|-----------------|-----------------------------------|-------|--------|
| Code | Message | Cause | Remedy |
| 17001 | Probe selection error | | |
| 17002 | Critical error on the Field Bus | | |
| 17003 | Critical error in flow control | | |
| 17004 | Critical error segmentation fault | | |

