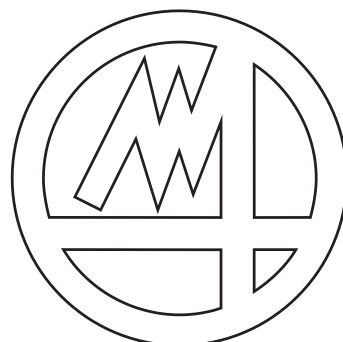


# BUILT

**CONTACT MEASUREMENT  
TOUCH**



**MARPOSS**

CONTENTS

1 MAIN NAVIGATION CHART .....3

2 SETTINGS .....5

2.1 OPTIONS ..... 5

2.2 HARDWARE & MECHANICAL PROGRAMMING..... 5

2.2.1 SETTING UP A TOUCH 2 PROBES TYPE CONTACT MEASUREMENT NODE ..... 6

2.3 NOTIFICATION MANAGEMENT ..... 8

2.4 USERS ..... 8

2.5 BACKUP & RESTORE..... 8

2.6 FILE MANAGEMENT..... 8

2.7 INFORMATION..... 8

3 PROGRAMMING .....9

3.1 TOUCH MEASUREMENT APPLICATION..... 10

3.1.1 LIST OF CYCLES ..... 10

3.1.2 AVAILABLE SETS.....11

3.1.3 PROGRAMMABLE DATA.....11

4 ERRORS - ALARMS.....15

4.1 ERRORS ..... 15

4.2 ALARMS ..... 15

1 MAIN NAVIGATION CHART

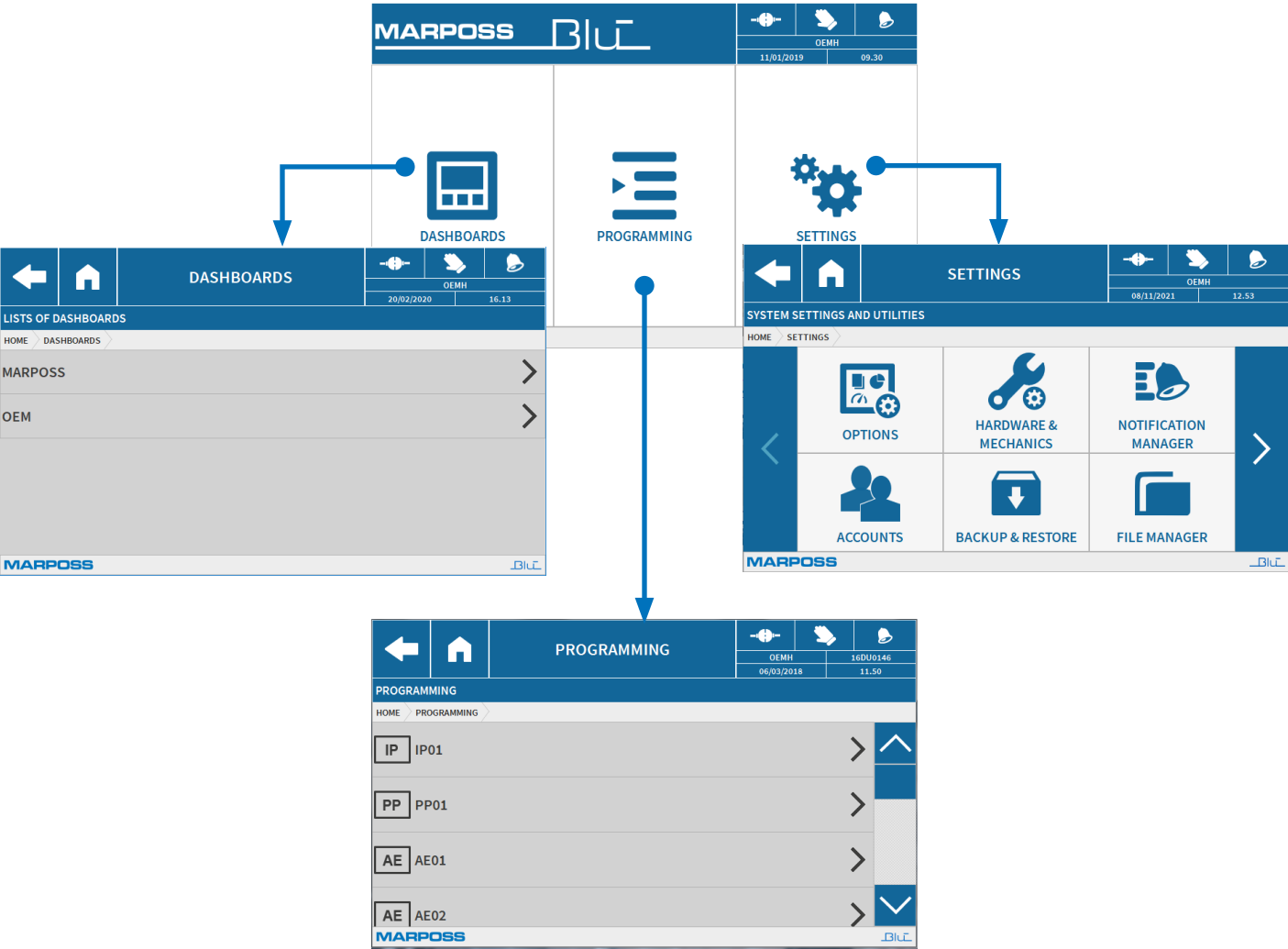





Fig.1. Main menus map

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



### 2.1 Options



See 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. The **HW Programming** screen corresponding to the **TOUCH** node is described below.

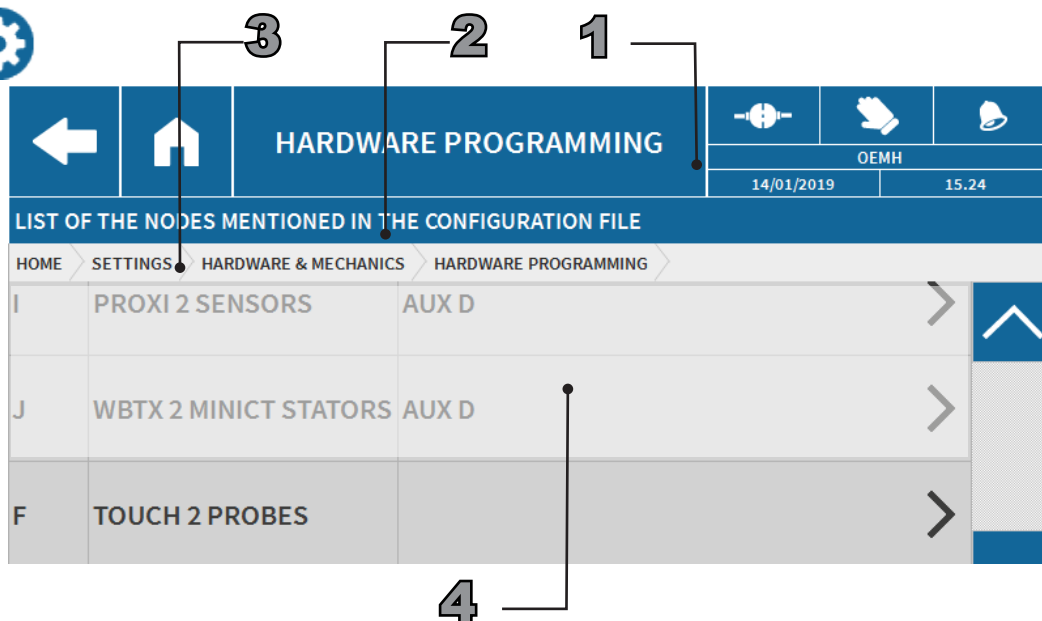


Fig.2. Main TOUCH 2 probes contact measurement node hardware programming screen

Screen title: **Hardware Programming**.

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

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.

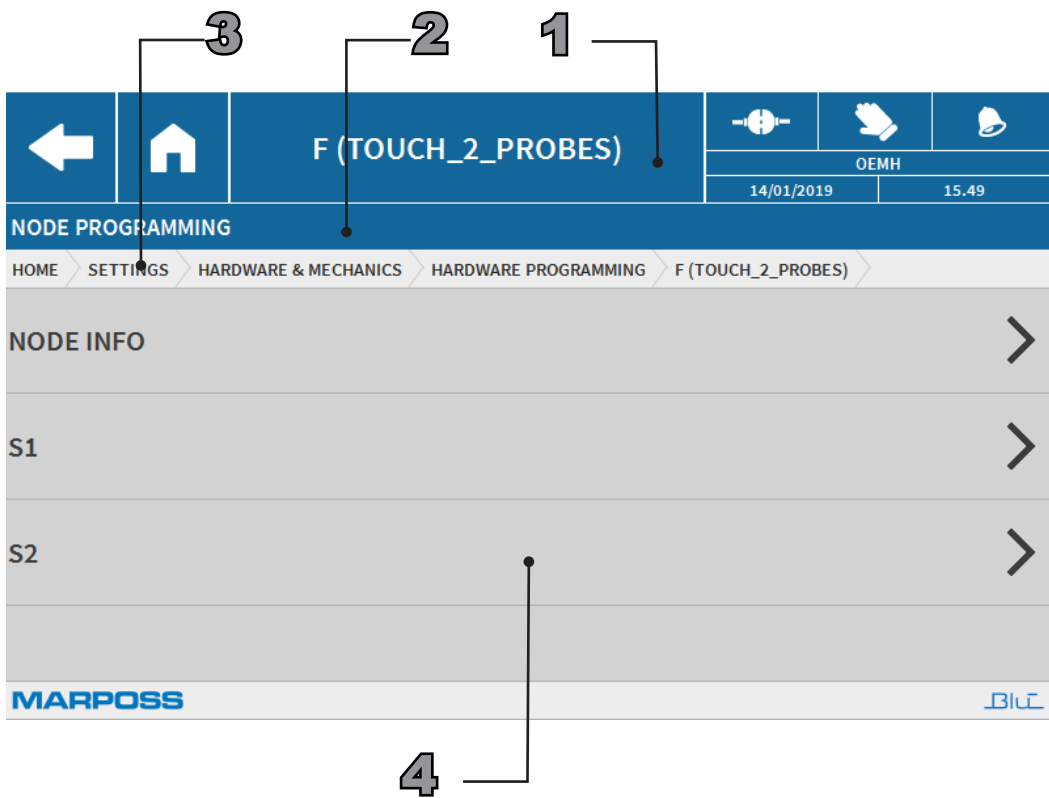


Fig.3. Main TOUCH 2 probes contact measurement node set-up screen

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.

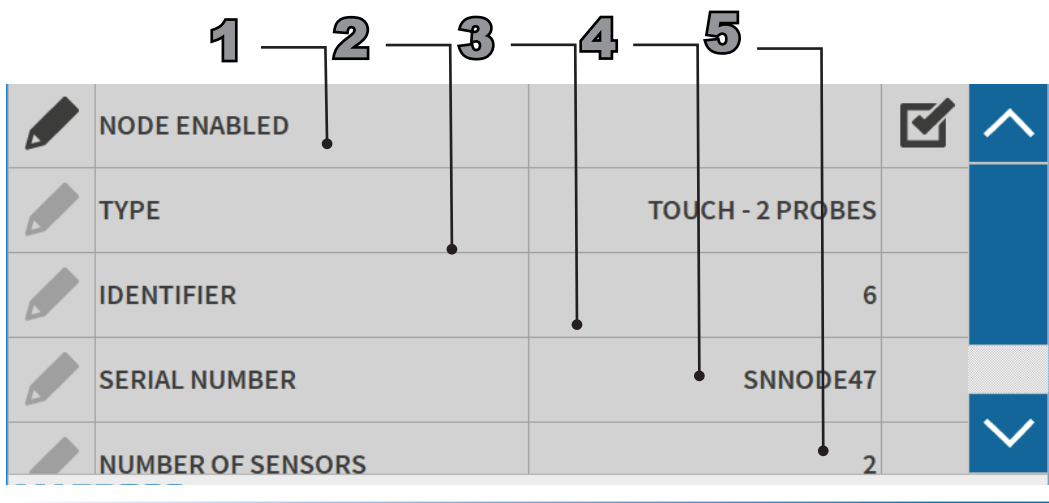


Fig.4. Node information screen

- 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.

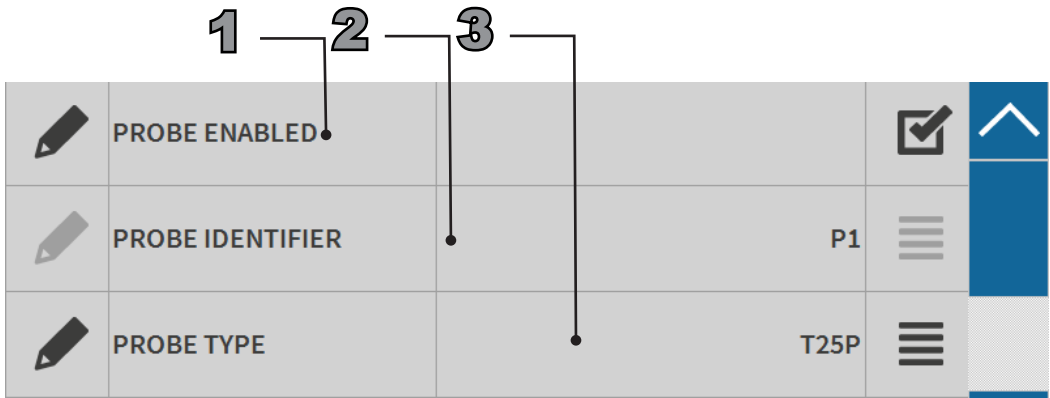


Fig.5. TOUCH 2 probes contact measurement node properties screen

- 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.

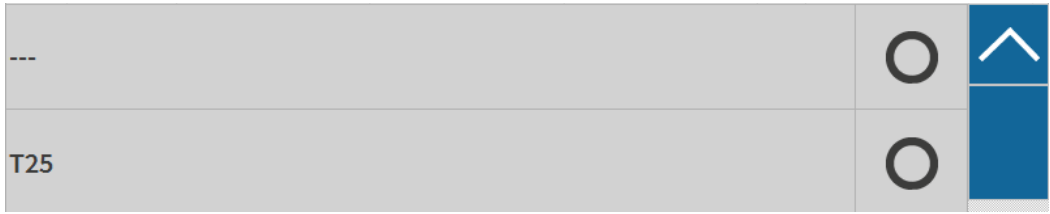


Fig.6. Type of probe to link.

### 2.3 Notification management

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See part B2.

### 2.4 Users

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See part B2.

### 2.5 Backup & Restore

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See part B2.

### 2.6 File management

---



See part B2.

### 2.7 Information

---



See part B2.



### 3 PROGRAMMING

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

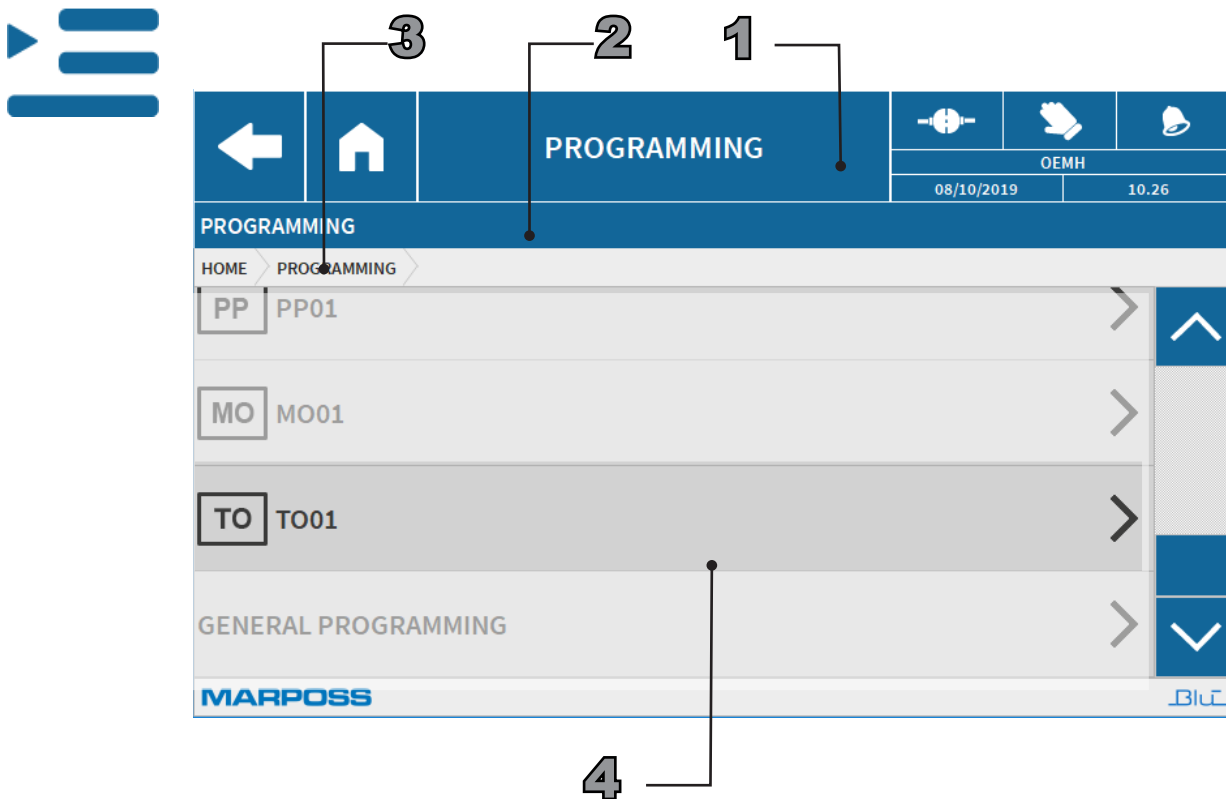


Fig.7. Available nodes for installed system screen

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.

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.

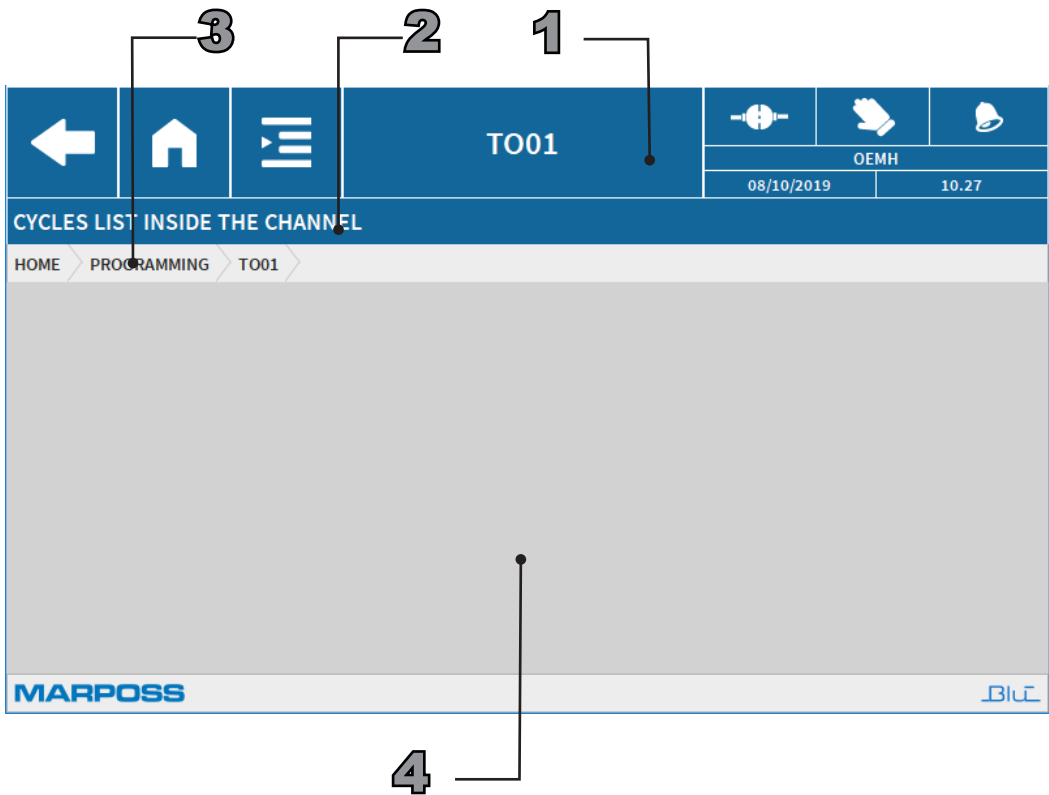


Fig.8. Screen displaying a list of the cycles present in a channel before adding a set

- 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.

			0	TOUCH 1 PROBE	>
			1	TOUCH 2 PROBE	>

Fig.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.

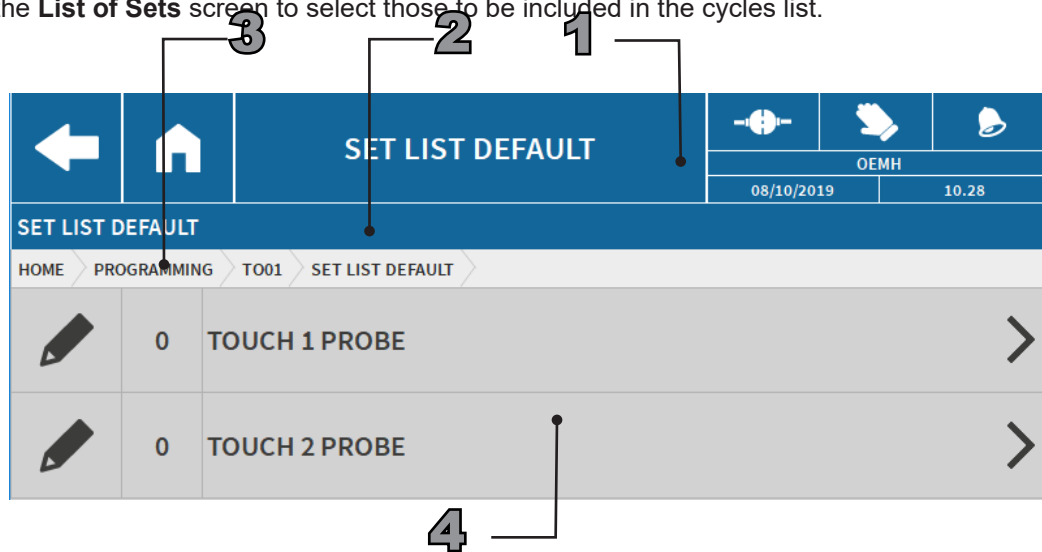


Fig.10. List of available sets. Availability depends on the configuration file

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.

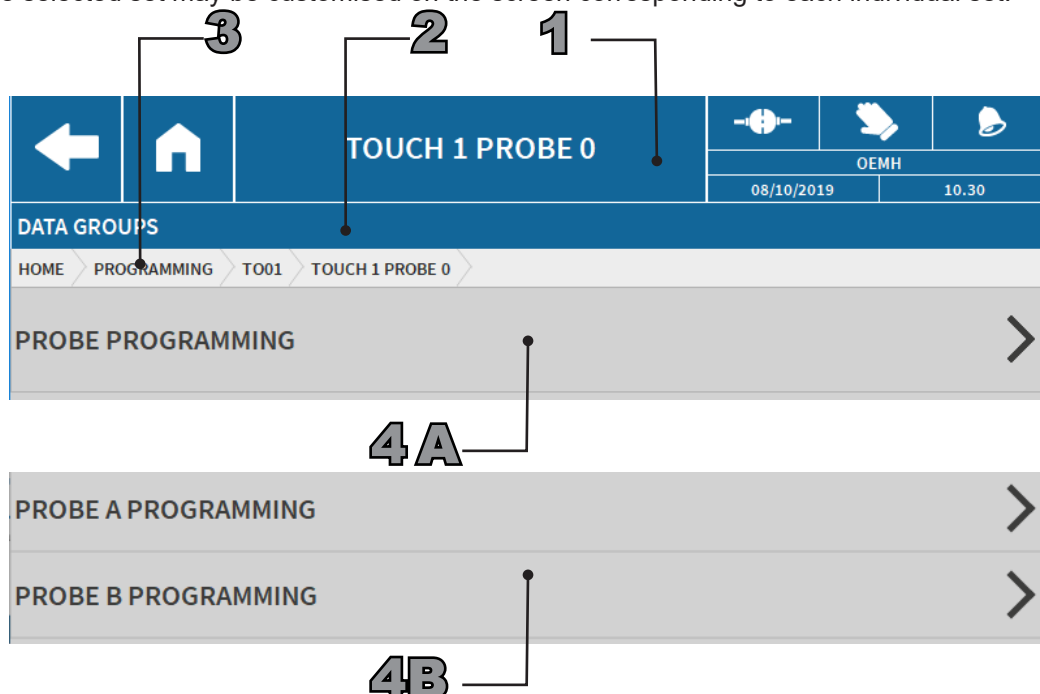


Fig.11. Programmable values screen. 4A = Probe version 1. 4B = Probe version 2.

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**.

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.

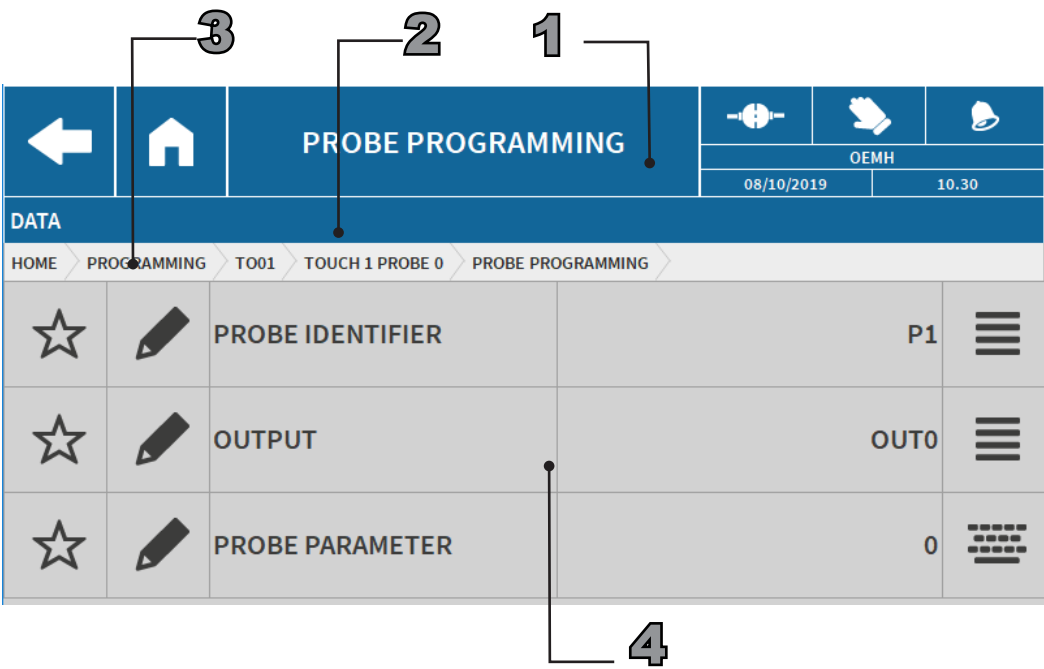


Fig.12. Probe programming data screen

- 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.

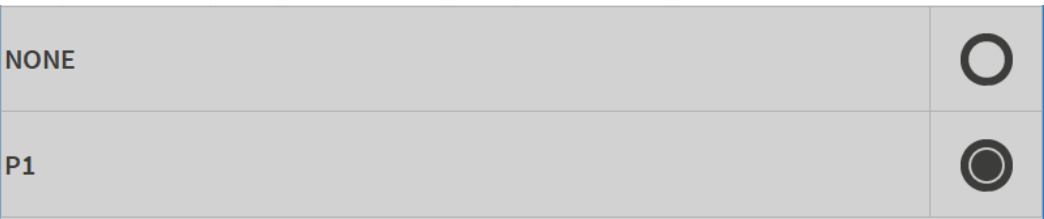


Fig.13. Select probe to associate with the node screen

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

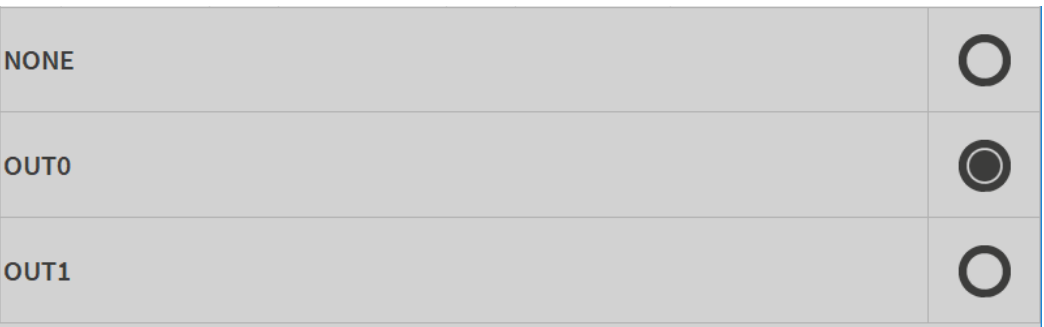


Fig.14. Probe fast output selection

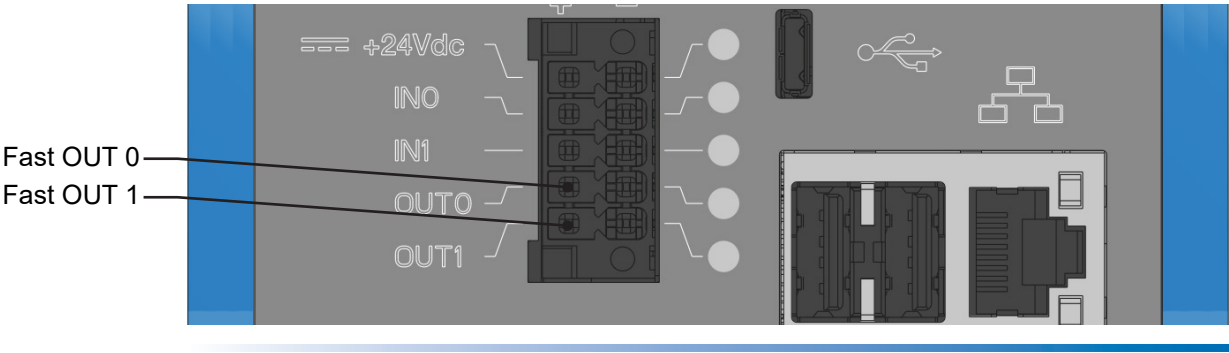


Fig.15. Fast outputs on Master node

- **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.

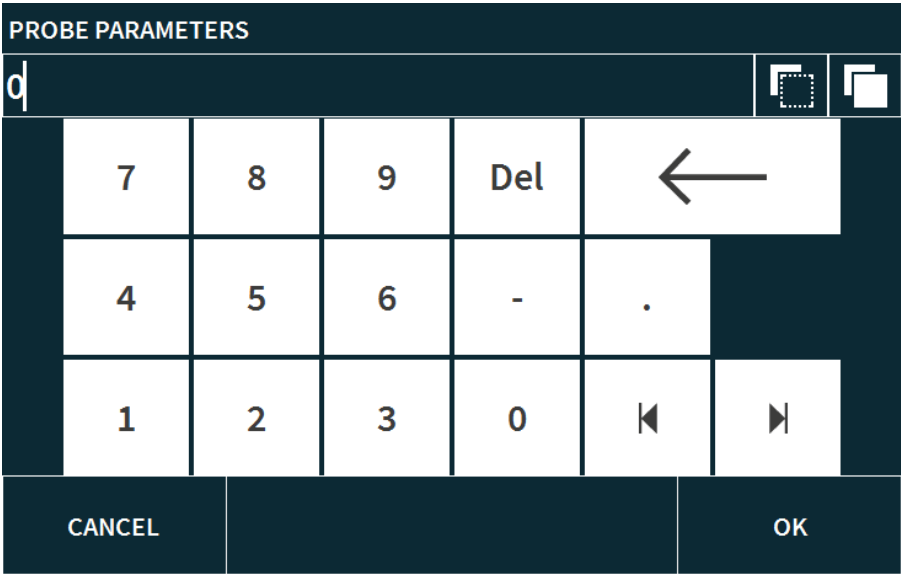


Fig.16. T25P type probe parameters

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		

