Altering numeric values

Since most of the machine parameters are numeric, a first big area of improvement is in the way the user actually manipulates numbers. In the old programming menu, you have to click once for every unit. For example, to move temperature from 40 to 72, you have to click 32 times. For some parameters (but not all), you can keep the button ”+” pressed in order to speed up the counting. If you keep the button pressed for about 5/8 seconds, the number starts to increments way faster at the expense of precision. When you come close enough to the target, you release the button and then proceed with the usual “one click per unit” in order to reach the desired value.

It’s hard to make a comparison in terms of “how many clicks” between the old way of setting numbers and the new one but, in almost every case, the new one wins. With respect to the example above, going from 40 to 72 with the new system, it only involves 5 click (3 to alter the number 4 and bring it to 7, 2 to alter the number 0 and bring it to 2) while, with the old way, you could need up to 32 click.

Having said that, from now on we words won’t take into consideration the number of click that are actually needed to change a value, but you should keep in mind that the new programming menu will save you a lot of time/click just for the basic operation of altering the numeric value of the parameters.

The programming menu

The old menu consists of a starting page that present the user with 6 different submenus to choose from:

1. PROGRAMMING
2. DATA
3. TEST VEND
4. RINSE CLEAN
5. MAINTENANCE
6. MODEM

Most of the features are in the PROGRAMMING MENU so we are going to use it as an example.

To access the programming menu, you already have to click once. Once in the PROGRAMMING menu, you have access to the following:

*NB: while in the programming menu, you can browse all the menu items from the first to the last (i.e. from BUTTON1 to MDB USD), or from the last to the first. If you know the machine enough, sometimes it’s faster to move from last to first in order to reach the item you want. In the following table, numbers in parentheses represents the number of click needed if you choose to go from last to first.*

|  |  |  |  |
| --- | --- | --- | --- |
| **NAME** | **DESCRIPTION** | **#CLICK IN THE OLD MENU** | **#CLICK IN THE NEW MENU** |
| BUTTON 1 | Give access to parameters of selection 1 | 1 (71) | 2 |
| BUTTON 2 | Give access to parameters of selection 2 | 2 (70) | 2 |
| …. |  |  |  |
| BUTTON 12 | Give access to parameters of selection 12 | 12 (59) | 2 |
| BUTTON 13 | Give access to parameters of selection 13 | 13 (60) | 3 |
| … |  |  |  |
| BUTTON 48 | Give access to parameters of selection 48 | 48 (24) | 3 |
| PRICES |  | 49 (23) | 2 or 3 |
| HAPPY PRICES |  | 50 (22) | 2 or 3 |
| COINS |  | 51 (21) | NA |
| TEMPERATURE |  | 52 (20) | 1 |
| MISCELLANEOUS |  | 53 (19) | 1 |
| DIAGNOSTIC |  | 54 (18) | 1 |
| SALES AUDIT |  | 55 (17) | 1 |
| PROGRAMMING MDB |  | 56 (16) | 1 |
| CLOCK |  | 57 (15) | 1 |
| REG OUT OF SERVICES |  | 58 (14) | 1 |
| PRODUCT QTY |  | 59 (13) | 1 |
| MAINTENANCE |  | 60 (12) | 1 |
| RFID CARD |  | 61 (11) | 1 |
| TUNING MOTORS |  | 62 (10) | NA |
| CALIB MOTOR FLUX |  | 63 (9) | 1 |
| PRODUCT AUDIT FLUX |  | 64 (8) | NA |
| ID MACHINE |  | 65 (7) | 2 |
| VARIFLEX |  | 66 (6) | 1 |
| VARIGRIND 1 |  | 67 (5) | 2 |
| VARIGRIND 2 |  | 68 (4) | 2 |
| MILKER |  | 69 (3) | 1 |
| MDB USD |  | 70 (2) | NA |

Keep in mind that **these are only the clicks needed to reach the specific submenu**. After having reach the desired submenu, **you still have to click** a certain amount of times **until you find the parameter** you want to modify. On the other hand, the new menu not only brings you faster in the submenu, but it also greatly speeds up the finding of parameters and, as already said at the start of the document, it even speeds up the action of altering a numeric parameter.

Example: selection parameters

Let’s start with an easy one, let’s say you want to alter the parameter “COFFEE WATER” for selection number 3.

|  |  |
| --- | --- |
| **OLD MENU** | **NEW MENU** |
| 1. Click 3 times in order to reach BUTTON 3 2. Click 3 time to reach the parameter 3. Alter the value | 1. Click 2 time in order to reach selection 3 2. Click 1 time to select tab ESPRESSO 3. Alter the value |
| TOTAL: 6 click plus those needed to increment/decrement the value | TOTAL: 3 click plus those needed to increment/decrement the value |

Let’s go deeper with parameters, let’s say you want to alter the parameter “COFFEE TIME” for selection number 3.

|  |  |
| --- | --- |
| **OLD MENU** | **NEW MENU** |
| 1. Click 3 times in order to reach BUTTON 3 2. Click 17 time to reach the parameter 3. Alter the value | 1. Click 2 time in order to reach selection 3 2. Click 1 time to select tab ESPRESSO 3. Alter the value |
| TOTAL: 20 click plus those needed to increment/decrement the value | TOTAL: 3 click plus those needed to increment/decrement the value |

Let’s say you want to alter the parameter “WATER 1 time” for selection number 3.

|  |  |
| --- | --- |
| **OLD MENU** | **NEW MENU** |
| 1. Click 3 times in order to reach BUTTON 3 2. Click 21 time to reach the parameter 3. Alter the value | 1. Click 2 time in order to reach selection 3 2. Click 1 time to select tab WATER 3. Alter the value |
| TOTAL: 24 click plus those needed to increment/decrement the value | TOTAL: 3 click plus those needed to increment/decrement the value |

Let’s say you want to alter the parameter “MIXER 1 time” for selection number 3.

|  |  |
| --- | --- |
| **OLD MENU** | **NEW MENU** |
| 1. Click 3 times in order to reach BUTTON 3 2. Click 24+ time to reach the parameter 3. Alter the value | 1. Click 2 time in order to reach selection 3 2. Click 1 time to select tab MIXER 3. Alter the value |
| TOTAL: 27+ click plus those needed to increment/decrement the value  *NB: depending on how many waters are active in the selection, the number of click will grow up. 27 is the best case scenario when you only have 1 water enabled* | TOTAL: 3 click plus those needed to increment/decrement the value |

Let’s say you want to alter the parameter “GRANULOMETRY” for selection number 3.

|  |  |
| --- | --- |
| **OLD MENU** | **NEW MENU** |
| 1. Click 3 times in order to reach BUTTON 3 2. Click 39+ time to reach the parameter 3. Alter the value | 1. Click 2 time in order to reach selection 3 2. Click 1 time to select tab ESPRESSO 3. Alter the value |
| TOTAL: 42 click plus those needed to increment/decrement the value  *NB: depending on how many waters AND mixers are active in the selection, the number of click will grow up. 42 is the best case scenario when you only have 1 water and 1 mixer enabled* | TOTAL: 3 click plus those needed to increment/decrement the value |

We’ve choose selection number 3 for all the above examples but, if we choose a selection deeper into the list, the number of click will increase. Choosing the selection number 12 for example, implies 12 click just to reach the submenu instead of the 3 click needed for selection number 3. To reflect this, you’ll have to add +9 to all the TOTALS for the examples above (only for OLD MENU, the clicks for the NEW MENU does not change).

Example: selections prices

When talking about selection prices, the old menu need from 50 to 97 click just to reach the parameters, then you have to adjust the numeri value.

If you’re smart enough, you can reduce the number of click in the range of 24 to 71 by traversing the programming menu in reverse.

The new menu require 2 clicks in order to change prices for selections from 1 to 12, and 3 clicks for selections from 3 to 48

|  |  |  |
| --- | --- | --- |
| **SELECTION NUM** | **OLD MENU** | **NEW MENU** |
| 1 | 49 +1 (23 +1) | 2 |
| 2 | 49 +2 (23 +2) | 2 |
| .. |  |  |
| 12 | 49 +12 (23 +12) | 2 |
| 13 | 49 +13 (23 +13) | 3 |
| .. |  |  |
| 48 | 49 +48 (23 +48) | 3 |

If we want to change HAPPY PRICE prices, we are in a similar situation:

|  |  |  |
| --- | --- | --- |
| **SELECTION NUM** | **OLD MENU** | **NEW MENU** |
| 1 | 50 +1 (22 +1) | 2 |
| 2 | 50 +2 (22 +2) | 2 |
| .. |  |  |
| 12 | 50 +12 (22 +12) | 2 |
| 13 | 50 +13 (22 +13) | 3 |
| .. |  |  |
| 48 | 50 +48 (22 +48) | 3 |

Example: heater temperature

|  |  |  |
| --- | --- | --- |
|  | **OLD MENU** | **NEW MENU** |
| heater | 53 +1 (20 +1) | 2 |

Example: off list

In the old menu, you have to click 58 (14) times in order to reach REG OUT OF SERVICES and then click 1 time for each of the 20 OFF that are reported:

* to see OFF number 1, you need 59 (15) click.
* to see OFF number 20, you need 78 (34) click.

In the new menu you need 2 click: click on MAINTENANCE, then click on OFF LIST and you will see all 20 messages displayed in table format.