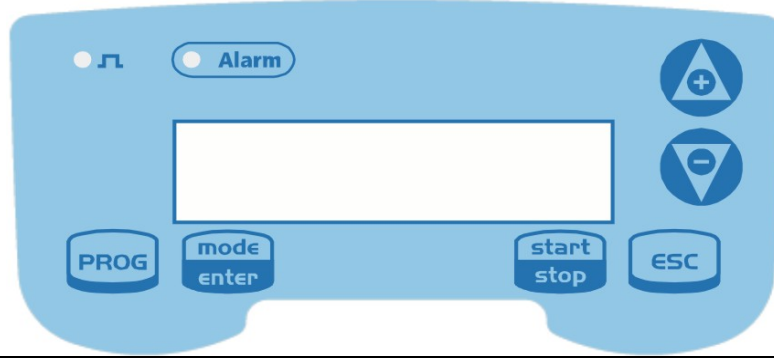

















Control Panel – TEKNA TCK

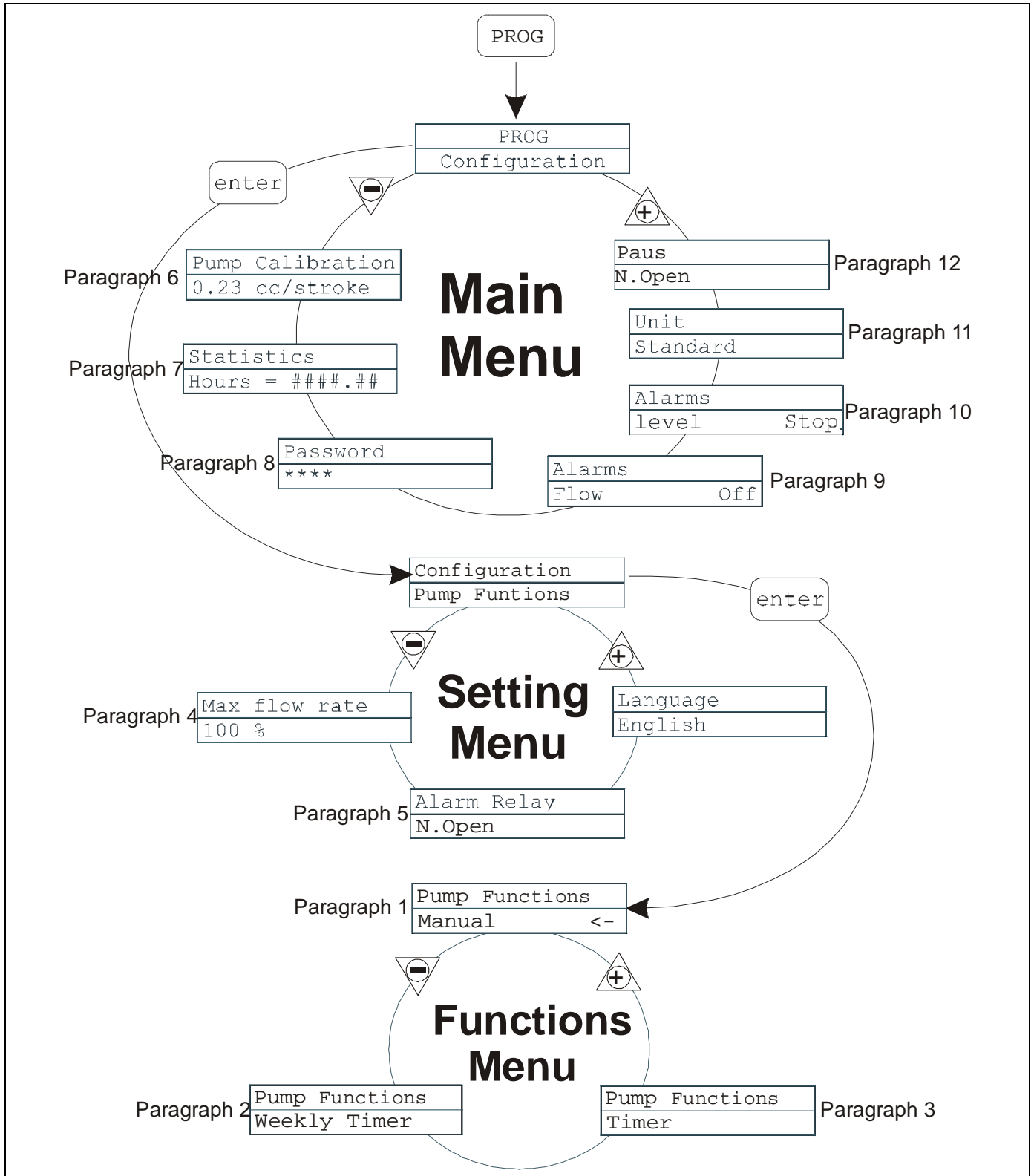
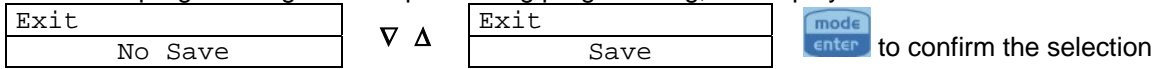


	Access to the programming menu
	When pressed during the pump operation phase, it cyclically displays the programmed values on the display; When pressed at the same time as the   keys, it increases or lowers a value dependent on the selected operating mode. During programming it carries out an “enter” function, meaning that it confirms entry to the various menu levels and modifications within the same.
	Starts and stops the pump. In the event of a level alarm (alarm function only), flow alarm and active memory alarm, it deactivates the signal on the display.
	Used to “exit” the various menu levels. Before definitively exiting the programming phase, you will be asked if you wish to save any changes.
	Used to run upwards through the menu or increase the numerical values to be changed. Can be used to start dosage in Batch mode
	Used to run downwards through the menu, or decrease the numerical values to be changed.
	Flashing green LED during dosage
	Red LED that lights up in various alarm situations

Electrical connections

	1	Output relay
	2	
	3	Not connected
	4	
	5	-Remote control input (start-stop)
	6	-Pause signal input
	7	Trigger signal input
	8	
	9	Flow sensor input
	10	
B	Input level control	

You can access the programming menu by pressing the  key for over three seconds. The   keys can be used to run through the menu items, with the  key being used to access changes. The pump is programmed in constant mode in the factory. The pump automatically returns to the operating mode after 1 minute of no activity. Any data entered in these circumstances will not be saved. The  key can be used to exit the various programming levels. Upon exiting programming, the display will show:



Setting the Language

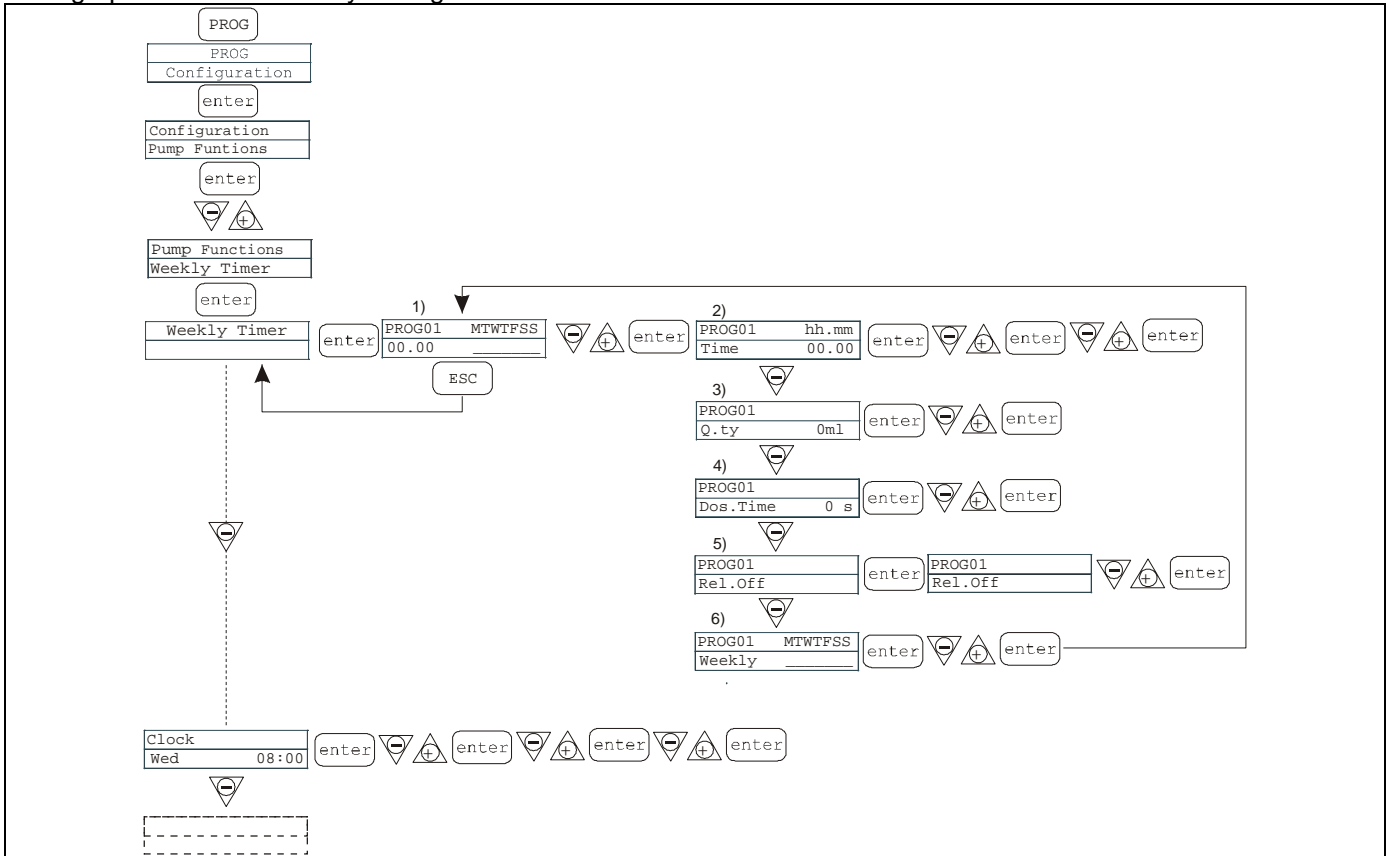
Programming	Operation
	<p>Makes it possible to select the language. The pump is set in English in the factory.</p> <p>Changes can be made by pressing the key, then using the keys to set the new value. Press to confirm and return to the main menu</p>


Paragraph 1 – Manual Dosage


























Programming	Operation
	<p>The pump operates in constant mode and the flow can only be regulated manually by pressing the keys at the same time in order to increase the flow, or the keys to decrease it.</p>


Display during Operation	Display during Setting (MODE key)





Paragraph 2 – Timed Weekly Dosage

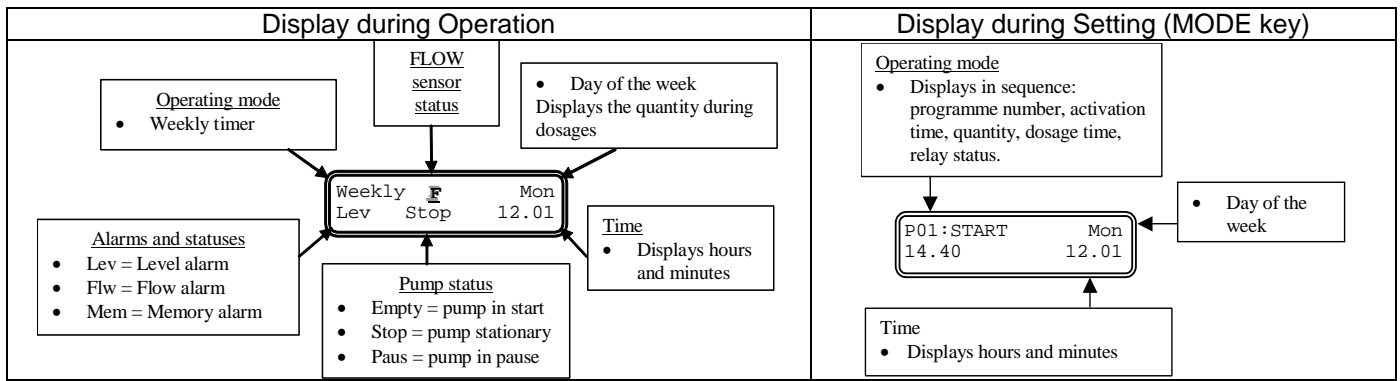


It is possible to programme 10 dosages for the whole week. Press  in the “weekly timer” mode in order to programme the dosages.

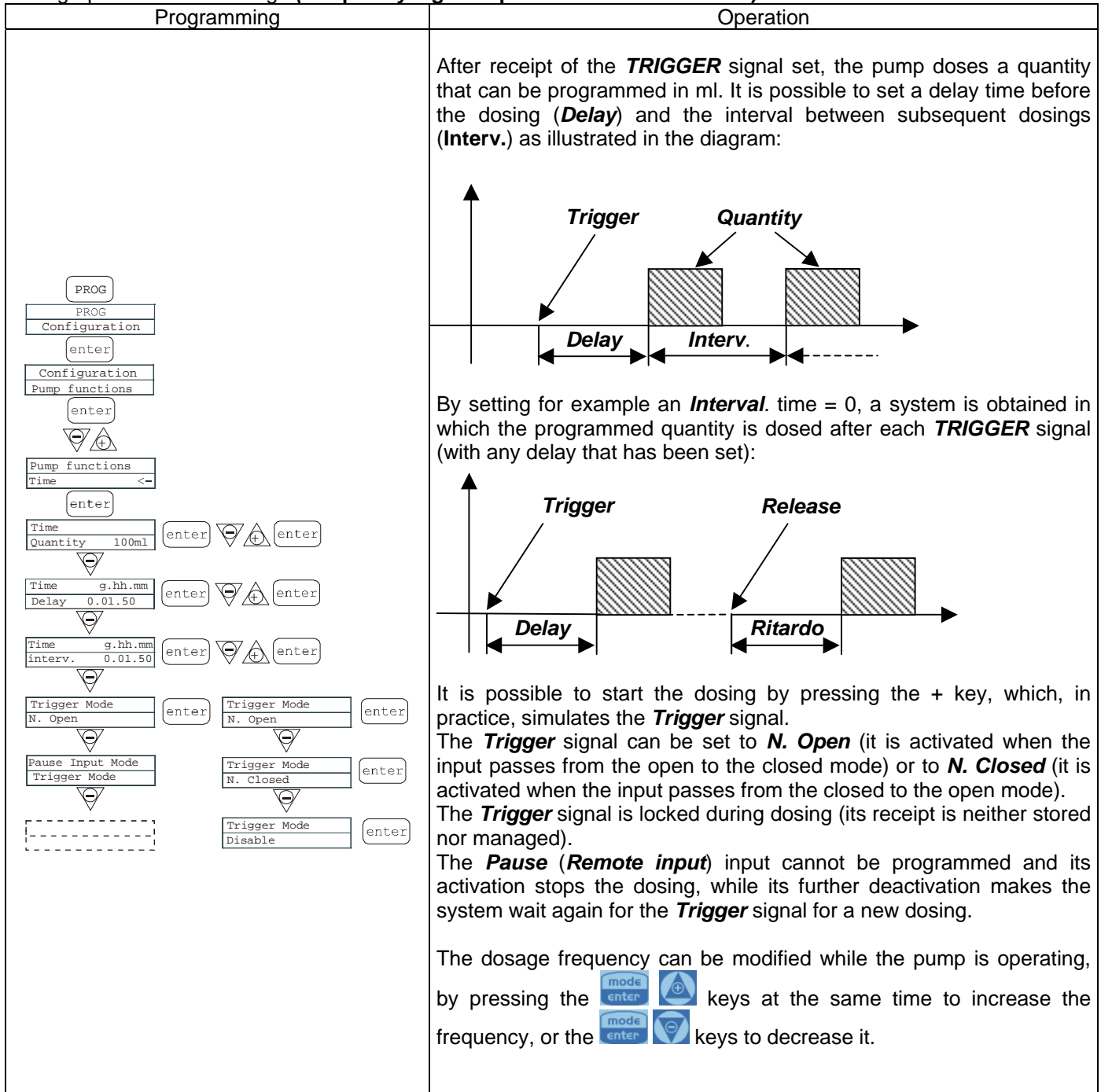
- 1) The programme number can be modified using the   keys and confirmed by pressing the  key.
- 2) The dosage time can be modified using the   keys and confirmed by pressing the  key.
- 3) The dosage quantity can be set in “ml” using the   keys and confirmed by pressing the  key
- 4) The dosage time, that is to say the time (in seconds) during which you wish to dose the set quantity, can be set in “cc” using the   keys and confirmed by pressing the  key
- 5) The values of the relay connected to dosage can be modified using the   keys and confirmed by pressing the  key; in “Off” mode, the relay is not switched off (open), and in “after” mode the relay closes when dosage is activated and remains closed once dosage is completed for the time (in seconds) set using the   keys and then confirmed by pressing the  key. In “before” mode, the relay closes before the dosage activation time, for the time (in seconds) set using the   keys and then confirmed by pressing the  key.
- 6) Day activation, or rather the days on which you want the set programme to be active (start time, quantity, dosage duration and relay operating mode). Press the  key to make changes, then press the  key to activate/deactivate dosage and the  key to change the day of the week. Press  to confirm and move automatically to the next programme.

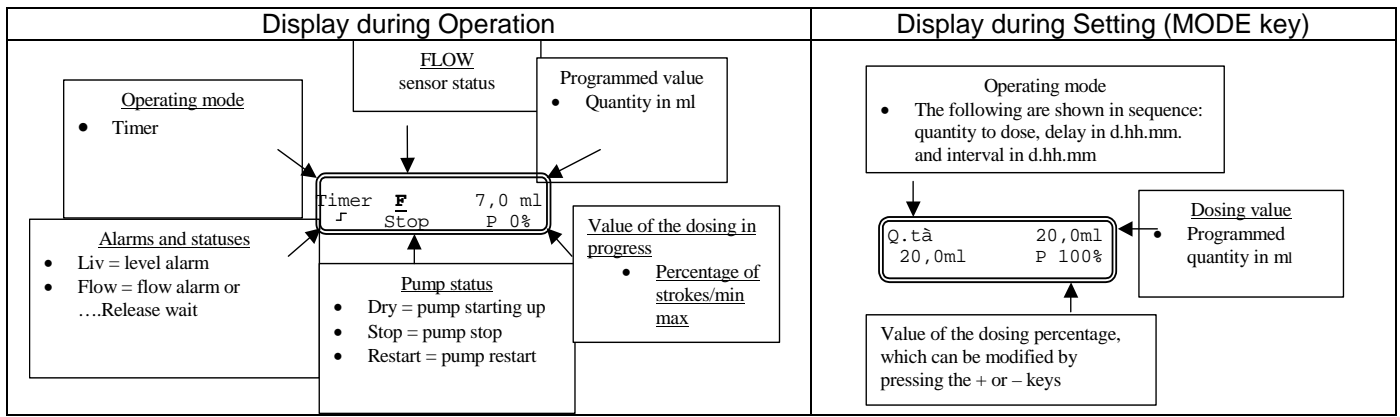
Repeat the whole procedure if you need to programme the new programme, or press  to return to the main menu.

The next step in the main menu is programming the clock. This can be done by pressing the  to make changes, using the   to set the required values and then confirming by pressing the  key. You can set the day, hour and minutes in sequence. Obviously, the set time and day are those that the programming will refer to.

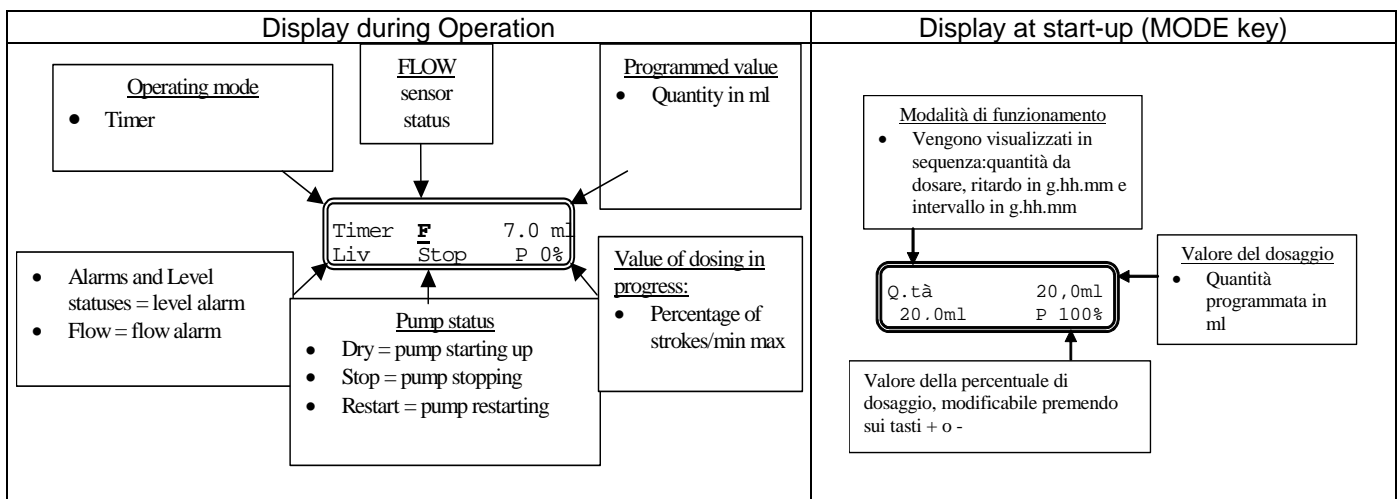
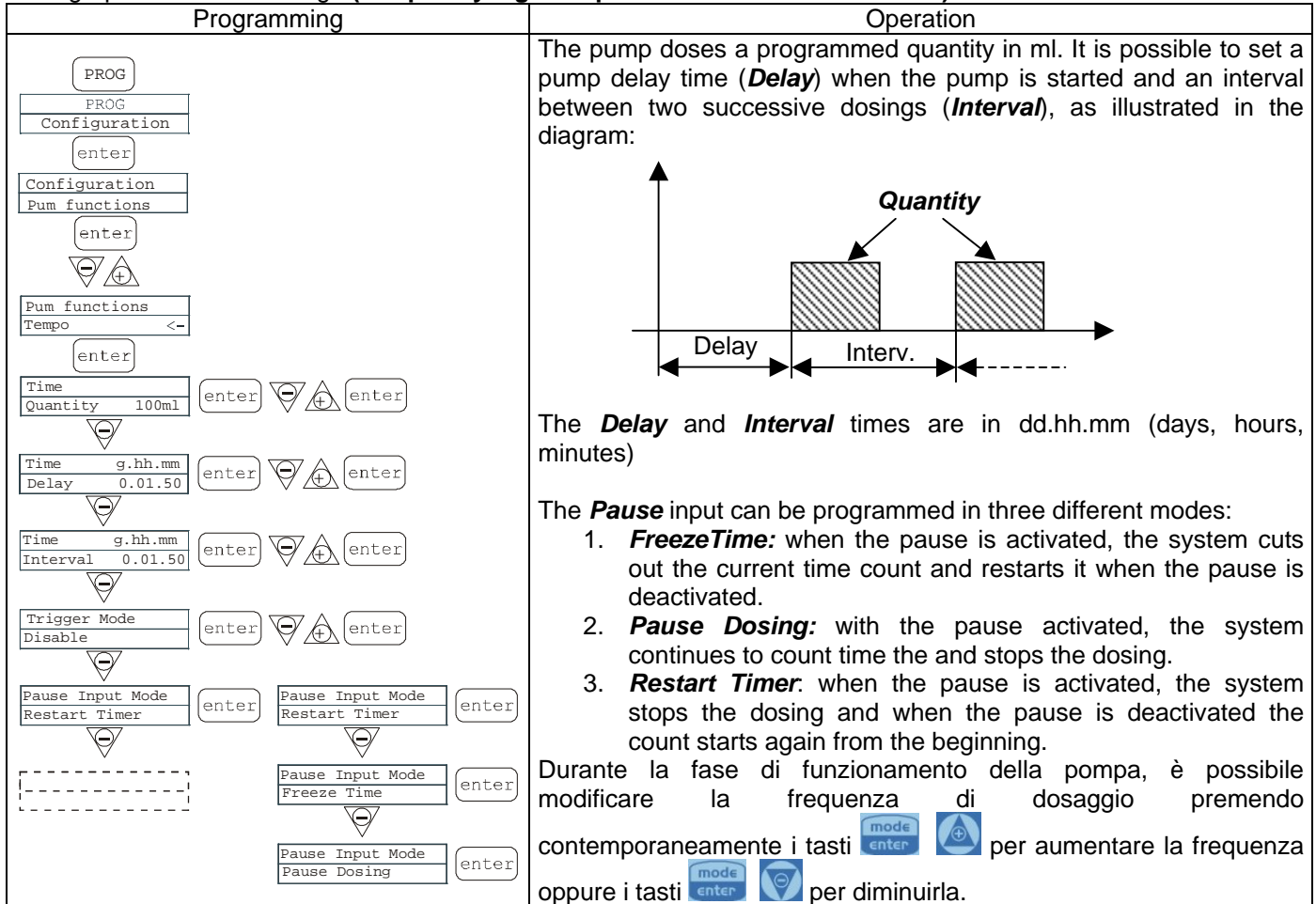


Paragraph 3 – Timed Dosage (Frequency signal input “TRIGGER” activated)





Paragraph 3 – Timed Dosage (Frequency signal input “TRIGGER” not activated)



Paragraph 4 – Setting the Maximum Flow

Programming	Operation
<p>The flowchart shows the following steps: 1. Press PROG. 2. Press PROG, then Configuration. 3. Press enter. 4. Press Configuration, then Pump Functions. 5. Press Max flow rate, then P100%. 6. Press enter, then Max flow rate, then P100%. 7. Press enter, then Max flow rate, then F320s/m. 8. Press enter, then Max flow rate, then F320s/m. 9. Press enter, then Max flow rate, then F320s/m. 10. Press enter, then Max flow rate, then F320s/m. 11. Press enter, then Max flow rate, then F320s/m. 12. Press enter, then Max flow rate, then F320s/m.</p>	<p>This makes it possible to set the maximum flow offered by the pump, and the programmed mode (% or frequency) is used as the standard unit of measurement when displaying the flow. Changes can be made by pressing the mode enter key, then using the + - keys to set the new value. Press mode enter to confirm and return to the main menu</p>

Paragraph 5 – Setting the Alarm Relay

Programming	Operation
<p>The flowchart shows the following steps: 1. Press PROG. 2. Press PROG, then Configuration. 3. Press enter. 4. Press Configuration, then Pump Functions. 5. Press Max flow rate, then P100%. 6. Press enter, then Alarm Relay, then N.Open. 7. Press enter, then Alarm Relay, then N.Open. 8. Press enter, then Alarm Relay, then N.Open. 9. Press enter, then Alarm Relay, then N.Open.</p>	<p>This is used to set the alarm relay in the absence of an alarm situation, if open (default) or closed. Changes can be made by pressing the mode enter key, then using the + - keys to set the new value. Press mode enter to confirm and return to the main menu</p>

Paragraph 6 – Flow rate Calibration

Programming	Operation
<p>The flowchart shows the following steps: 1. Press PROG. 2. Press PROG, then Configuration. 3. Press enter. 4. Press Pump Calibration, then 0,23 cc/stroke. 5. Press enter. 6. Press Pump Calibration, then Manual. 7. Press enter, then Pump Calibration, then cc/stroke 0,23. 8. Press enter, then Pump Calibration, then cc/stroke 0,23. 9. Press enter, then Pump Calibration, then cc/stroke 0,23. 10. Press enter, then Pump Calibration, then cc/stroke 0,23. 11. Press enter, then Pump Calibration, then cc/stroke 0,23. 12. Press enter, then Pump Calibration, then cc/stroke 0,23. 13. Press enter, then Pump Calibration, then cc/stroke 0,23. 14. Press enter, then Pump Calibration, then cc/stroke 0,23. 15. Press enter, then Pump Calibration, then cc/stroke 0,23. 16. Press enter, then Pump Calibration, then cc/stroke 0,23. 17. Press enter, then Pump Calibration, then cc/stroke 0,23. 18. Press enter, then Pump Calibration, then cc/stroke 0,23. 19. Press enter, then Pump Calibration, then cc/stroke 0,23. 20. Press enter, then Pump Calibration, then cc/stroke 0,23. 21. Press enter, then Pump Calibration, then cc/stroke 0,23. 22. Press enter, then Pump Calibration, then cc/stroke 0,23. 23. Press enter, then Pump Calibration, then cc/stroke 0,23. 24. Press enter, then Pump Calibration, then cc/stroke 0,23. 25. Press enter, then Pump Calibration, then cc/stroke 0,23. 26. Press enter, then Pump Calibration, then cc/stroke 0,23. 27. Press enter, then Pump Calibration, then cc/stroke 0,23. 28. Press enter, then Pump Calibration, then cc/stroke 0,23. 29. Press enter, then Pump Calibration, then cc/stroke 0,23. 30. Press enter, then Pump Calibration, then cc/stroke 0,23. 31. Press enter, then Pump Calibration, then cc/stroke 0,23. 32. Press enter, then Pump Calibration, then cc/stroke 0,23. 33. Press enter, then Pump Calibration, then cc/stroke 0,23. 34. Press enter, then Pump Calibration, then cc/stroke 0,23. 35. Press enter, then Pump Calibration, then cc/stroke 0,23. 36. Press enter, then Pump Calibration, then cc/stroke 0,23. 37. Press enter, then Pump Calibration, then cc/stroke 0,23. 38. Press enter, then Pump Calibration, then cc/stroke 0,23. 39. Press enter, then Pump Calibration, then cc/stroke 0,23. 40. Press enter, then Pump Calibration, then cc/stroke 0,23. 41. Press enter, then Pump Calibration, then cc/stroke 0,23. 42. Press enter, then Pump Calibration, then cc/stroke 0,23. 43. Press enter, then Pump Calibration, then cc/stroke 0,23. 44. Press enter, then Pump Calibration, then cc/stroke 0,23. 45. Press enter, then Pump Calibration, then cc/stroke 0,23. 46. Press enter, then Pump Calibration, then cc/stroke 0,23. 47. Press enter, then Pump Calibration, then cc/stroke 0,23. 48. Press enter, then Pump Calibration, then cc/stroke 0,23. 49. Press enter, then Pump Calibration, then cc/stroke 0,23. 50. Press enter, then Pump Calibration, then cc/stroke 0,23. 51. Press enter, then Pump Calibration, then cc/stroke 0,23. 52. Press enter, then Pump Calibration, then cc/stroke 0,23. 53. Press enter, then Pump Calibration, then cc/stroke 0,23. 54. Press enter, then Pump Calibration, then cc/stroke 0,23. 55. Press enter, then Pump Calibration, then cc/stroke 0,23. 56. Press enter, then Pump Calibration, then cc/stroke 0,23. 57. Press enter, then Pump Calibration, then cc/stroke 0,23. 58. Press enter, then Pump Calibration, then cc/stroke 0,23. 59. Press enter, then Pump Calibration, then cc/stroke 0,23. 60. Press enter, then Pump Calibration, then cc/stroke 0,23. 61. Press enter, then Pump Calibration, then cc/stroke 0,23. 62. Press enter, then Pump Calibration, then cc/stroke 0,23. 63. Press enter, then Pump Calibration, then cc/stroke 0,23. 64. Press enter, then Pump Calibration, then cc/stroke 0,23. 65. Press enter, then Pump Calibration, then cc/stroke 0,23. 66. Press enter, then Pump Calibration, then cc/stroke 0,23. 67. Press enter, then Pump Calibration, then cc/stroke 0,23. 68. Press enter, then Pump Calibration, then cc/stroke 0,23. 69. Press enter, then Pump Calibration, then cc/stroke 0,23. 70. Press enter, then Pump Calibration, then cc/stroke 0,23. 71. Press enter, then Pump Calibration, then cc/stroke 0,23. 72. Press enter, then Pump Calibration, then cc/stroke 0,23. 73. Press enter, then Pump Calibration, then cc/stroke 0,23. 74. Press enter, then Pump Calibration, then cc/stroke 0,23. 75. Press enter, then Pump Calibration, then cc/stroke 0,23. 76. Press enter, then Pump Calibration, then cc/stroke 0,23. 77. Press enter, then Pump Calibration, then cc/stroke 0,23. 78. Press enter, then Pump Calibration, then cc/stroke 0,23. 79. Press enter, then Pump Calibration, then cc/stroke 0,23. 80. Press enter, then Pump Calibration, then cc/stroke 0,23. 81. Press enter, then Pump Calibration, then cc/stroke 0,23. 82. Press enter, then Pump Calibration, then cc/stroke 0,23. 83. Press enter, then Pump Calibration, then cc/stroke 0,23. 84. Press enter, then Pump Calibration, then cc/stroke 0,23. 85. Press enter, then Pump Calibration, then cc/stroke 0,23. 86. Press enter, then Pump Calibration, then cc/stroke 0,23. 87. Press enter, then Pump Calibration, then cc/stroke 0,23. 88. Press enter, then Pump Calibration, then cc/stroke 0,23. 89. Press enter, then Pump Calibration, then cc/stroke 0,23. 90. Press enter, then Pump Calibration, then cc/stroke 0,23. 91. Press enter, then Pump Calibration, then cc/stroke 0,23. 92. Press enter, then Pump Calibration, then cc/stroke 0,23. 93. Press enter, then Pump Calibration, then cc/stroke 0,23. 94. Press enter, then Pump Calibration, then cc/stroke 0,23. 95. Press enter, then Pump Calibration, then cc/stroke 0,23. 96. Press enter, then Pump Calibration, then cc/stroke 0,23. 97. Press enter, then Pump Calibration, then cc/stroke 0,23. 98. Press enter, then Pump Calibration, then cc/stroke 0,23. 99. Press enter, then Pump Calibration, then cc/stroke 0,23. 100. Press enter, then Pump Calibration, then cc/stroke 0,23.</p>	<p>The memorised cc value per strike appears in the main menu. It can be calibrated in two different ways: MANUAL – manually enter the cc value per strike using the + - keys and confirm by pressing the mode enter key AUTOMATIC – the pump makes 100 strikes, which are started by pressing the mode enter key. At the end of this process, enter the quantity sucked up by the pump using the + - keys and confirm by pressing the mode enter key. The entered figure will be used in flow calculations.</p>

Paragraph 7 - Statistics

Programming	Operation
	<p>The main menu displays the pump operation times. By pressing the mode enter key you can access other statistics:</p> <ul style="list-style-type: none"> - Strokes = number of strokes made by the pump - Q.ty (L) = quantity dosed by the pump in litres; this figure is calculated on the basis of the memorised cc/stroke value - Power = number of pump starts <p>- Reset = use the mode enter to reset the counters (YES) or otherwise (NO), then confirm by pressing the mode enter key.</p> <p>Pressing the ESC key will take you back to the main menu.</p>

Paragraph 8 – Password

Programming	Operation
	<p>By entering the password, you can enter the programming menu and see all the set values. The password will be requested whenever you seek to modify them. The flashing line indicates the number that can be modified.</p> <p>Use the mode enter key to select the number (from 1 to 9), and the mode enter key to select the number to be modified. Confirm by pressing the mode enter key. By setting “0000” (default), the password is eliminated.</p>

Paragraph 9 – Flow Alarm

Programming	Operation
	<p>This makes it possible to activate (deactivate) the flow sensor.</p> <p>When activated (On), press the mode enter key to access the request for the number of signals that the pump waits for before an alarm is triggered. The number flashes when you press the mode enter key, and you can then use the mode enter keys to set the value. Confirm by pressing the mode enter key. Press ESC to return to the main menu</p>

Paragraph 10 – Level Alarm

Programming	Operation
	<p>This makes it possible to set the pump when the level sensor alarm is activated. In other words you can decide whether to stop dosage (Stop) or simply activate the alarm signal without stopping dosage.</p> <p>Changes can be made by pressing the mode enter key, then using the + - keys to set the alarm type. Confirm by pressing the mode enter key. Press ESC to return to the main menu</p>

Paragraph 11 – Flow Display Unit

Programming	Operation
	<p>measurement on the display.</p> <p>Changes can be made by pressing the mode enter key, then using the + - keys to set the unit of measurement, choosing between L/h (litres/hour), Gph (Gallons/hour), ml/m (millilitres/minute) or standard (% or frequency, depending on settings). Press mode enter to confirm and return to the main menu</p>

Paragraph 12 – Setting the Pause

Programming	Operation
	<p>The pump can be paused by remote input. The factory setting is Normally Open.</p> <p>Changes can be made by pressing the mode enter key, then using the + - keys to set the new value (N. OPEN or N. CLOSED).</p> <p>Press mode enter to confirm and return to the main menu.</p>

Display contrast adjustment.

For adjusting the display contrast keep the key **ESC** pressed and within 5 seconds press the keys **+** or **-** to increase or decrease the contrast.

Alarms

Display	Cause	Interruption						
Fixed alarm LED Flashing word "Lev" I.e. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>Man</td><td></td><td></td></tr><tr><td>Lev</td><td></td><td>P100%</td></tr></table>	Man			Lev		P100%	End of level alarm, without interrupting pump operation	Restore the liquid level.
Man								
Lev		P100%						
Fixed alarm LED Flashing words "Lev" and "stop" I.e. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>Man</td><td></td><td></td></tr><tr><td>Lev</td><td>Stop</td><td>P100%</td></tr></table>	Man			Lev	Stop	P100%	End of level alarm, with interruption to pump operation	Restore the liquid level.
Man								
Lev	Stop	P100%						
Fixed alarm LED Flashing word "Flw" I.e. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>Man</td><td>F</td><td></td></tr><tr><td>Flw</td><td></td><td>P100%</td></tr></table>	Man	F		Flw		P100%	Active flow alarm. The pump has not received the programmed number of signals from the flow sensor.	Press the start stop key
Man	F							
Flw		P100%						
I.e. <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td>Parameter Error</td></tr><tr><td>PROG to default</td></tr></table>	Parameter Error	PROG to default	Internal CPU communication error.	Press the PROG key to restore the default parameters.				
Parameter Error								
PROG to default								