



# HMI (Human Machine Interface) System User Manual

Approbation par:  
Richard S. Poulin

Date : 19 Mars 2021

No. :

Révision : 0

Warning: The present document has been produced with a Duplex System. The same procedures apply for a Simplex, Triplex, Quadruplex or Quintuplex pump system.

## 1.0 SCREEN DEFINITION:

### MAIN SCREEN





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### 1.1 Main screen:

The main screen giving access the system when you press “LOCKED” (#4)

#1 “AUTO” choose if you want to put P1 in automatic mode or manual mode.

#2 “AUTO” choose if you want to put P2 in automatic mode or manual mode.

#3 “SETTING” giving access for all systems settings

#4 “LOCKED” security access button. Need to press for accessing HMI System

#5 “SYSTEM OK” define if the system is up and running and give access on the alarm page

#6 “EMERGENCY STOP” press it when you want to stop the system in emergency mode

#7 “SCALE” graphic scale of pressure in process

#8 “SETPOINT” setpoint setting that you determine in PSI

#9 Digital displaying pressure in process



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## 2.0 FIRST STEP: UNLOCK YOUR SCREEN:

2.1 Need to press "LOCKED" to function:





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2.2 Press "2222" (1) to unlock the function and press "ENT" (2)



1

2


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2.3 Access to your HMI System:

After unlocking the HMI, you will see that the status is “UNLOCKED” (1)




Now, it's time to configure your system

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### 3.0 CONFIGURE YOUR HMI SYSTEM:

#### 3.1 Go to setting (1):



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3.2 On the first page of the settings:



The screenshot shows the 'Multi-pumps configuration' screen (1/2) with the following settings and callouts:

- 1**: Points to the 'ACCEL. TIME' setting, which is set to 1.0 s.
- 2**: Points to the 'DECEL. TIME' setting, which is set to 1.0 s.
- 3**: Points to the 'SLEEP FREQUENCY' setting, which is set to 20 Hz.
- 4**: Points to the 'SLEEP DELAY' setting, which is set to 20 s.
- 5**: Points to the 'WAKE-UP DIFFERENTIAL' setting, which is set to 0.
- 6**: Points to the 'NEXT' navigation button at the bottom.
- 7**: Points to the 'PREVIOUS' navigation button at the bottom.

Other visible elements on the screen include:

- A warning message at the top: "Unproper changes made in this page could affect system performance. All drives should be stopped before sending new values otherwise these may not be saved correctly. If enabled, the 'EMERGENCY STOP' button below can be use as a shortcut to this step."
- Operating time displays for 'Drive #1' and 'Drive #2', both showing 0 yr(s), 0 day(s), 0 hr(s), and 0 min(s).
- A 'SAVE parameters to picture' button in the top right corner.
- A sidebar on the right with options: Touch calibration, Date & Time, Enter password, Password Manager, Emergency button ENABLED (highlighted with a green box), and Display scale (0.0 FT).
- Bottom navigation buttons: HOME, PREVIOUS, NEXT, SYSTEM OK (highlighted in green), and EMERGENCY STOP.



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### 3.3 Setting definition

#1 "ACCEL. TIME" enter the seconds that you need for acceleration

#2 "DECEL. TIME" enter the seconds that you need for deceleration

#3 "SLEEP FREQUENCY" enter the Hertz for the sleep frequency

#4 "SLEEP DELAY" enter the seconds for sleep delay

#5 "WAKE-UP DIFFERENTIAL" enters the number of feet for wake-up differential

#6 After finishing, click "NEXT"

#7 Return to home page





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## 3.4 Settings second section:


The screenshot shows the 'Multi-pumps configuration' screen (2/2) with various settings and a navigation bar. The settings table is as follows:

Parameter	Value	Unit	Category	P1	P2	Unit
PID MIN FREQUENCY	#	Hz	Nominal power	0.00	0.00	HP
PID MAX FREQUENCY	#	Hz	Nominal voltage	0	0	V
AUTOCHANGE INTERV.	0.0	Hr(s)	Nominal frequency	0	0	Hz
			Nominal speed	0	0	RPM
			Nominal current	0.00	0.00	A

Navigation bar: HOME, PREVIOUS, NEXT, SYSTEM OK, EMERGENCY STOP

Right sidebar: SAVE parameters to picture, Touch calibration, Date & Time, Enter password, Password Manager, Emergency button ENABLED, Display scale 0.0 FT

Callouts: 1-3 point to the three main settings rows; 4-5 point to PREVIOUS and NEXT buttons; 6-11 point to the right sidebar options.

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### 3.5 Second section definition

#1 "PID MIN FREQUENCY" enter the number of Hertz for minimum frequency

#2 "PID MAX FREQUENCY" enter the number of Hertz for maximum frequency

#3 "AUTOCHANGE INTERV. Enter the hours and minutes for auto-change interval

#4 You can click "PREVIOUS" if you want to return to the first page of settings

#5 You can click "HOME" to return on the main page

#6 For calibration, touch your screen

#7 Changing the date and time on the system

#8 To enter your password if it's required

#9 For managing your password

#10 Enable or disable, touch button emergency

#11 Display scaling the bar graph of 250 psi or 500 psi



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## 4.0 EMERGENCY STOP

When you press Emergency Stop button (1), see next page the status:

