

Motors
Automation
Energy
Transmission and
Distribution
Coatings

PUMP GENIUS

View Only HMI I/O Manual (V1.3)



Driving efficiency and sustainability

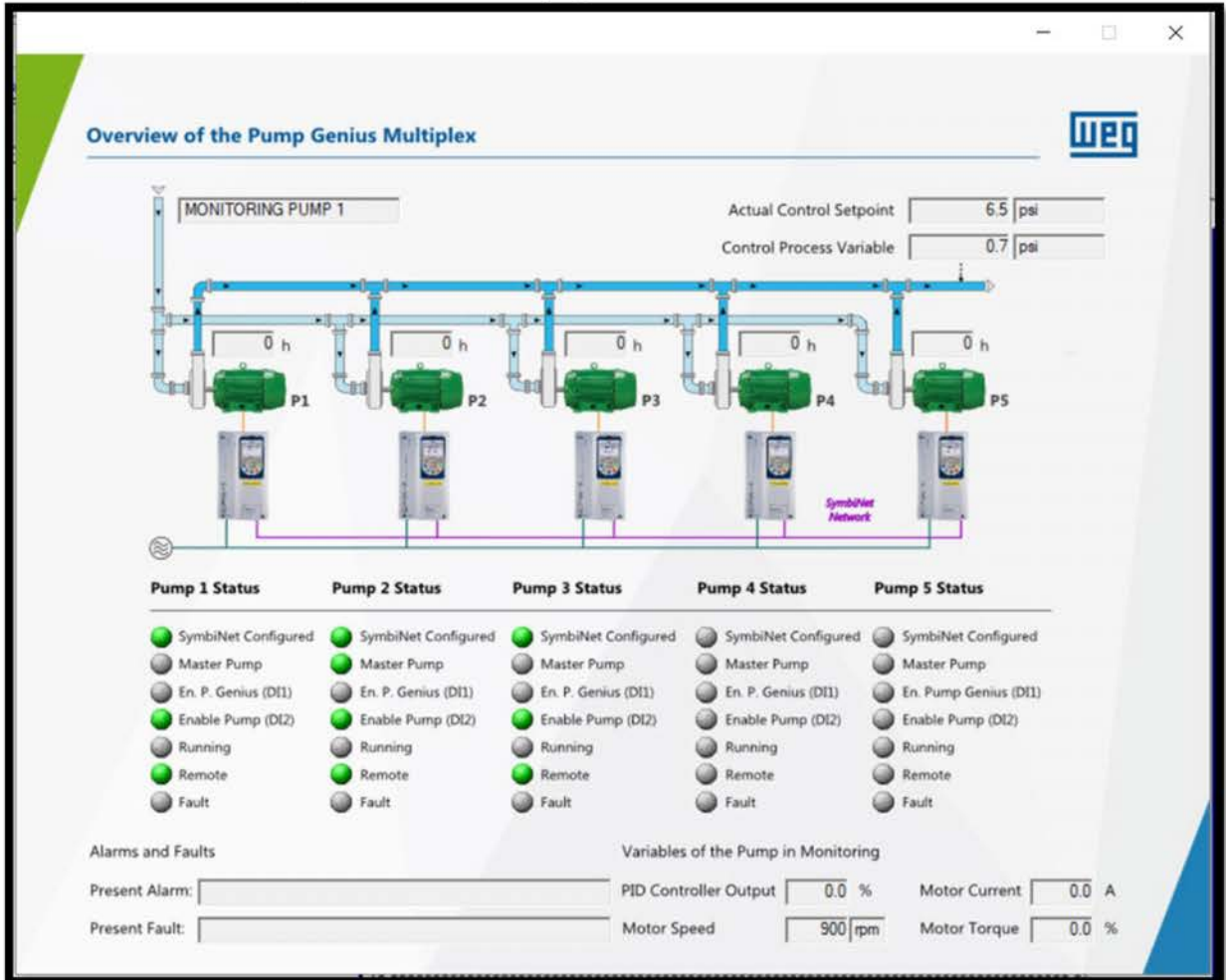




This product requires a CAN/RS485-01 communication module for each VFD in the system, please verify the proper communications module is available for, or already installed on each VFD.

For a new installation, proceed to Step 3.

- 1) Verify the SymbiNetwork is operable by connecting via USB and WLP and launching the Overview of the Pump Genius monitor page.



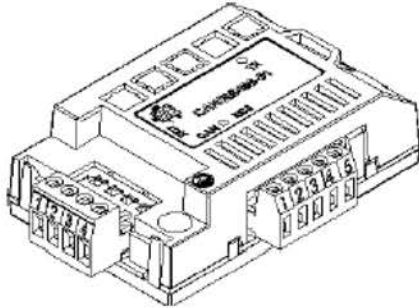
- 2) Power off all drives and remove existing communication modules, if the existing modules are not CAN/RS485 modules.
- 3) If this is a new installation, Pump Genius must be configured and downloaded to each VFD using the WLP software. Please review Steps 6 and 7 before configuring Pump Genius.
- 4) Install CAN/RS485-01 communication modules on all drives. Reference CANopen Communication Manual Document Number: 0899.5747 / 04 (can be downloaded from WEG website). Parameter P0028 can be used to verify proper installation of the module, after installing the module and cycling VFD power, P0028 should reflect a value of "CAXXh". This identifies the dual-channel module and is needed because Pump Genius communicates using the SymbiNet protocol over the CAN network and the Pump Genius HMI communicates to the VFDs using Modbus RTU over the RS485 network.
- 5) Wire CAN network Data and Power. Be sure to properly terminate the CAN network at both ends using .25W 120 Ohm resistors. The resistors are installed between pins 2 and 4 (CAN_L and CAN_H) for the first module (VFD closest to the Pump Genius HMI) and the last module (VFD furthest from the Pump Genius HMI).

The CAN communication module presents a 5 wire *plug-in* connector (XC5) with the following pinout:



CAN interface (XC5) connector pinout

Pin	Name	Function
1	V-	Power supply negative pole.
2	CAN_L	CAN_L communication signal.
3	Shield	Cable shield
4	CAN_H	CAN_H communication signal.
5	V+	Power supply positive pole.



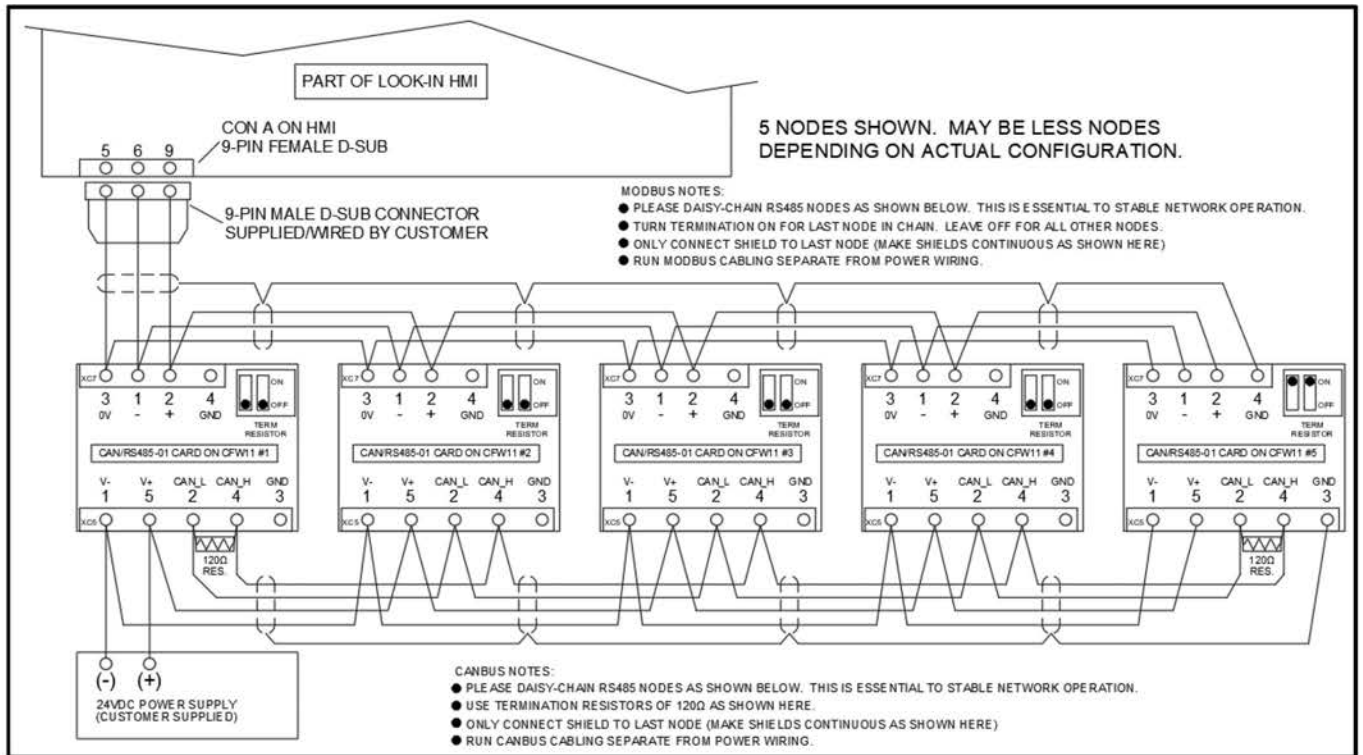
- ☑ WEG part number: 10051960.
- ☑ Composed by the CAN/RS485-01 communication module (drawing at the left), mounting instruction and fixing screw.
- ☑ It has the same characteristics of the CAN-01 interface, plus an RS485 interface, for applications where the operation with both interfaces is necessary.

The RS485 communication module presents a 4 wire *plug-in* connector (XC7) with the following pin assignment:



4 wire RS485 connector pin assignment

Pin	Name	Function
1	A-Line (-)	RxD/TxD negative
2	B-Line (+)	RxD/TxD positive
3	GND	0V isolated from the RS485 circuit
4	Ground	Ground (shield)

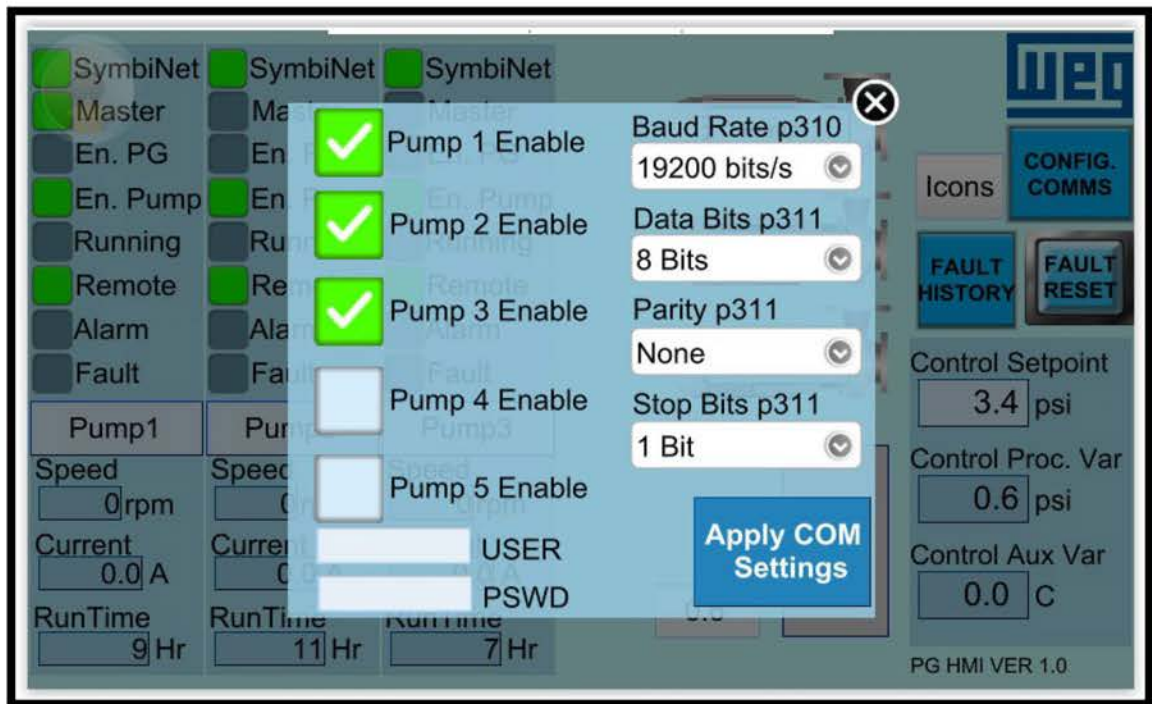


- 6) Wire the RS485 network. The above figure shows five VFD communications modules wired into the network. Switches S1:1 and S1:2 should be turned on for the last CAN/RS485 module (VFD furthest from the Pump Genius HMI). Turning on switches S1:1 and S1:2 properly terminates the RS485 network.
- 7) Using either the VFD HMI or WLP, verify the parameter settings shown below on each VFD in the system. Pump Genius is using the CAN network to communicate between VFDs.
 - a. P700 = 3. Symbinet
 - b. P701 = CAN address same as Modbus address, i.e., 1,2,3,4,5, depending on pump number. Each address must be unique to a VFD
 - c. P702 = 0. 1Mbps/s
 - d. P313 = 5. Comm Error Fault Trip. Manually adjust if other than 5. Note: This setting will cause a FAULT condition on the VFD based on Comm error. It is up to the user to determine if this fits his application or another action is desired. Manually adjust the above parameters at each drive, if necessary.
- 8) Through the VFD KEYPAD or WLP software change/set Modbus communication parameters on each VFD in the system. The Pump Genius HMI is using the RS485 network to communicate with the VFDs.
 - e. P308 = Modbus address, please refer to "b." above
 - f. P310 = 1. 19200 bits/s or adjust HMI Baud Rate to Match
 - g. P311 = 0. 8 bits, no parity, 1 stop bit, or adjust HMI Data Bits / Parity /Stop Bits to match
 - h. P312 = 2. Modbus RTU.
 Manually adjust the above parameters at each drive, if necessary.
- 9) Connect the Pump Genius HMI to the Modbus Network.

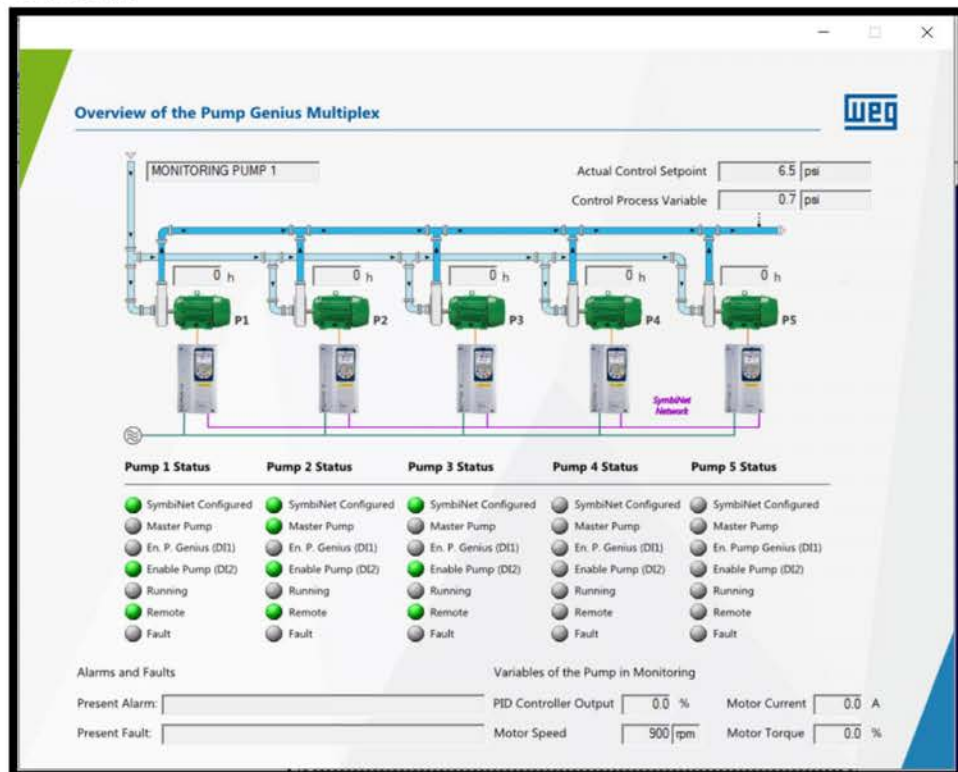
Pin#	COM 3	Function
5	GND	Signal Ground
6	Data -	Data Negative
9	Data +	Data Positive

- 10) Power Cycle the Drives.
- 11) Power on the Pump Genius HMI and connect to the VFD Modbus network, if not already connected in Step 8.

- 12) Select "Config. Comms" in top right of the Pump Genius HMI Main Screen, set communication parameters to match settings p310 and p311 in each VFD. Power up the VFD's present on the network. The user must login before they can make changes to the communications settings. Refer to Table 10 for the initial user name and password and the procedure for changing the password.

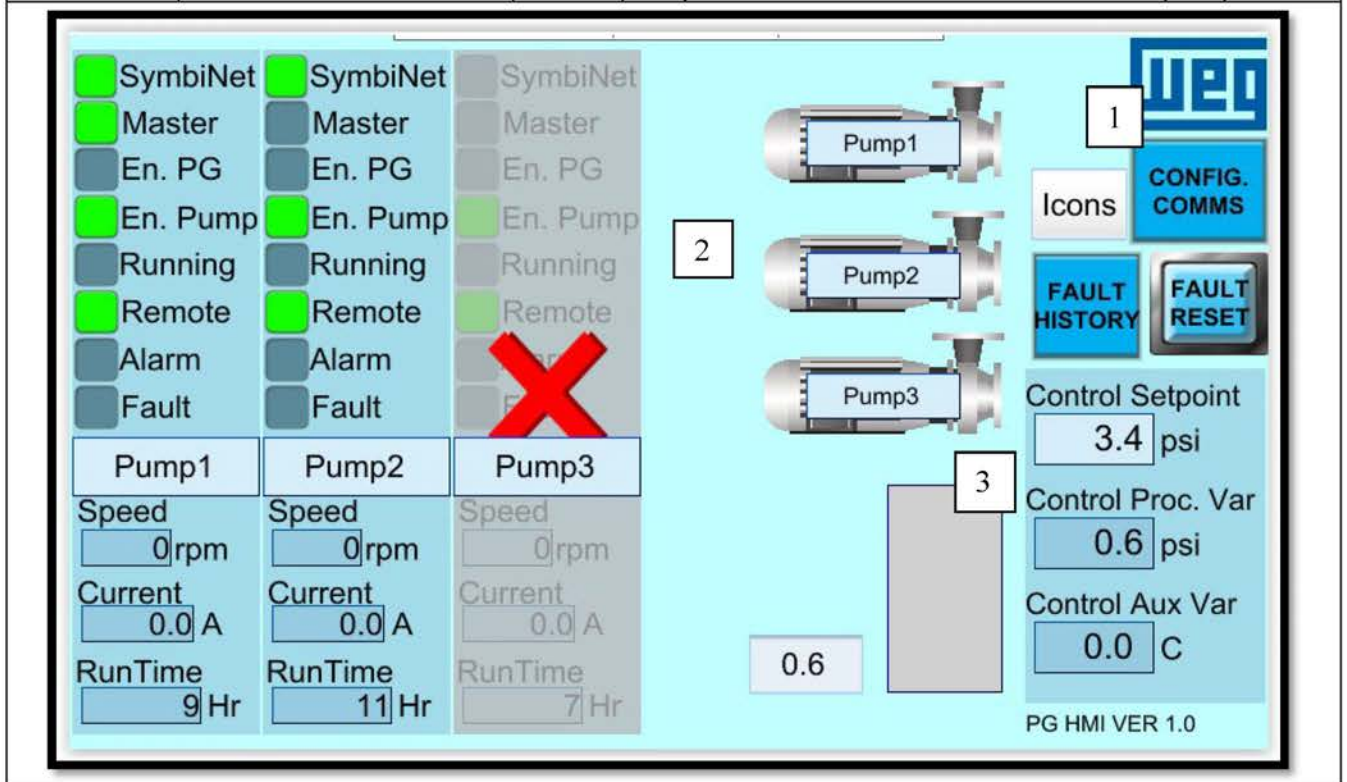


- 13) Verify SymbiNetwork is operable by connecting via USB and using WLP, launch the Overview of the Pump Genius monitor page. Pump Genius is using the Symbinet protocol over the CAN bus.



HMI Operating Screens – Tables 1 through 10 can be used to verify correct functioning of the Pump Genius HMI.

Table 1 Pump Genius HMI Main Screen		
Call Out	Function	Description
1	RS485 Configuration/Icons	Clicking on the "Config. Comms" button opens the RS485 configuration screen, refer to Table 6/Press "Icons" button for 1 second to turn pumps icon and bargraph on/off
2	VFD Status	Displays current VFD System and communication status. Clicking on a panel opens that VFDs Detail Screen, refer to Table 2. Note: in the figure shown below, pump 3 is enabled from the Communications Configuration Screen, refer to Table 6, but is not communicating with the Pump Genius HMI – the fact a VFD is not communicating with the Pump Genius HMI may have no affect on operations. A device name, in place of the default Pump1, can be entered from this screen, all other screens referencing the device will use the name entered here. The limit on the configurable device name is 8 characters. The pump icons provide a visual display of the status of each of the pumps. Note: The pump icons are only available for a maximum of three pumps configured in the system
3	System Variables	Displays current system variables. Operator can change the Control Setpoint from this screen, after logging in. The bar display provides a visual representation of setpoint control, only available for a maximum of three pumps



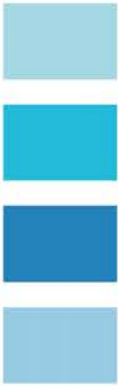
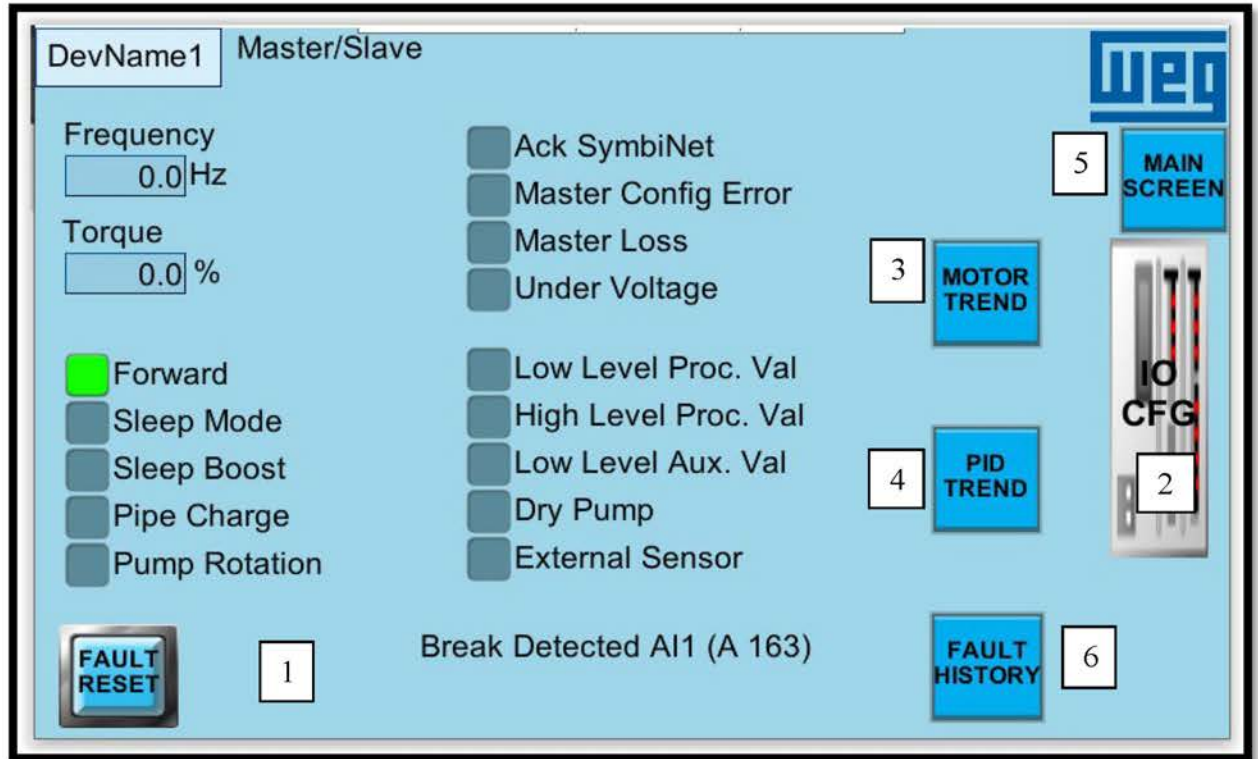


Table 2 Individual VFD Pump Genius HMI Detail

Call Out	Function	Description
1	Alarm / Fault Display	Displays Alarms and Faults and Resets Faults
2	I/O CFG	Opens I/O Screen, Table 3
3	Motor Trend	Opens Motor variable trend screen, Table 4. A maximum of seven days data is stored from the motor trend
4	PID Trend	Opens PID Trend Page – only available for the current Master, Table 5. A maximum of seven days data is stored from the PID trend
5	Main Screen	Returns to the Main Screen, Table 1
6	Fault History	Opens the Fault History screen, Table 8



Displays Motor parameter values, Pump Genius status, alarms, faults. Reset of faults for the system and navigation to trending screens.

Table 3 VFD IO Screen

Call Out	Function	Description
1	VFDx Detail	Clicking on the button returns to the previous screen

The screenshot displays the VFD IO configuration interface. At the top left, the device name is 'DevName1'. The interface is organized into several sections:

- Analog Inputs (AI):**
 - AI 1: 0.61%
 - AI 2: 50.00%
- Digital Inputs (DI):**
 - DI 1: Enable Pump Genius
 - DI 2: Enable Use of Pumps
 - DI 3: Not used
 - DI 4: Not used
 - DI 5: Not used
 - DI 6: Not used
- Digital Outputs (DO):**
 - DO 1: Fault
 - DO 2: Run
 - DO 3: A770 / 772 or F771 / F773
- Navigation:** A 'VFD1 DETAIL' button is located in the top right corner.

Displays VFD I/O configuration and current status of the I/O.

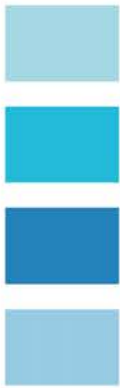
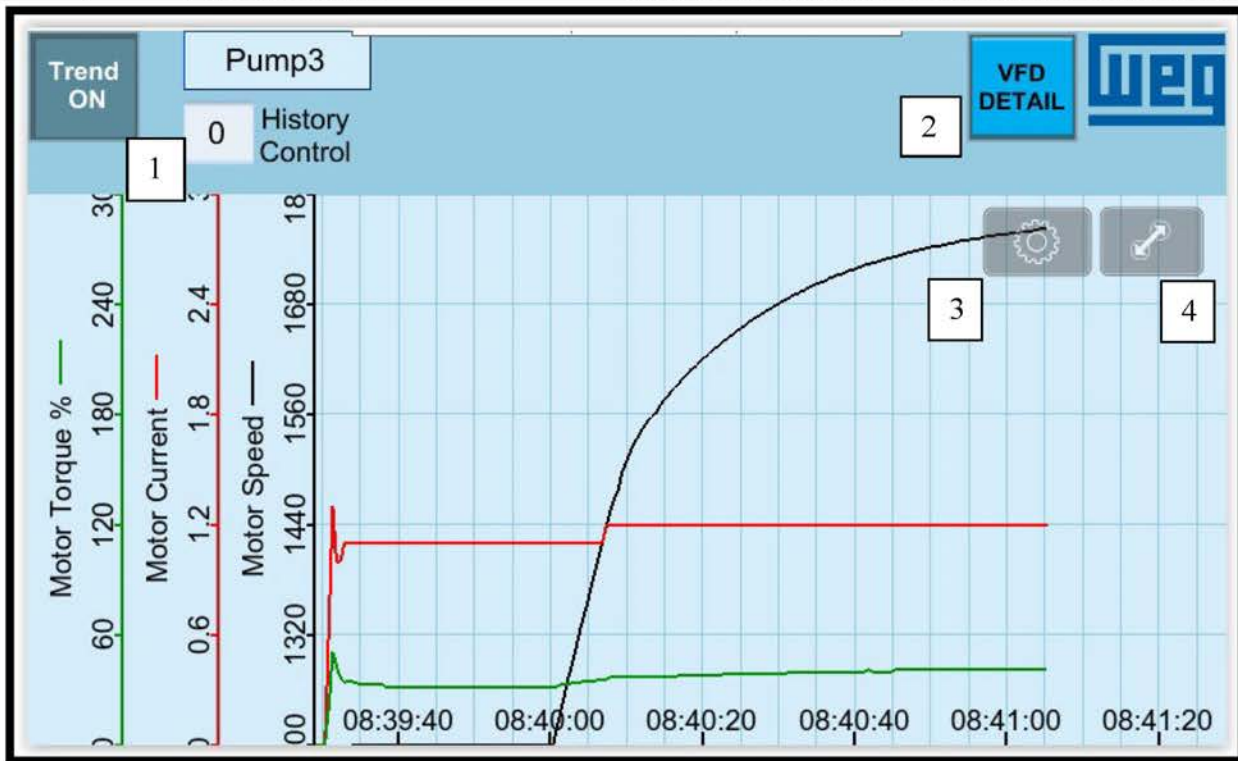


Table 4 Motor Trend Screen

Call Out	Function	Description
1	Enable Trending/History Control	Starts and Stops trending for motor variables/ History Control selects the day to display data for: 0 = today; 1 = yesterday; 2 = day before yesterday, etc., up to a maximum of 7
2	VFDx Detail	Clicking on the button returns to the previous screen, VFD Detail, Table 2
3	Configuration	Allows selecting a date, can also be done using history control, refer to #1 in this table. A maximum of seven days' data is available from the motor trend
4	Zoom Control	Allows zooming in or out on the trend display



Displays trending for Motor Torque / Current / Speed.

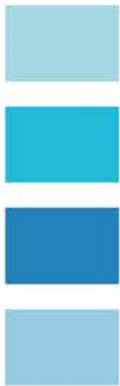
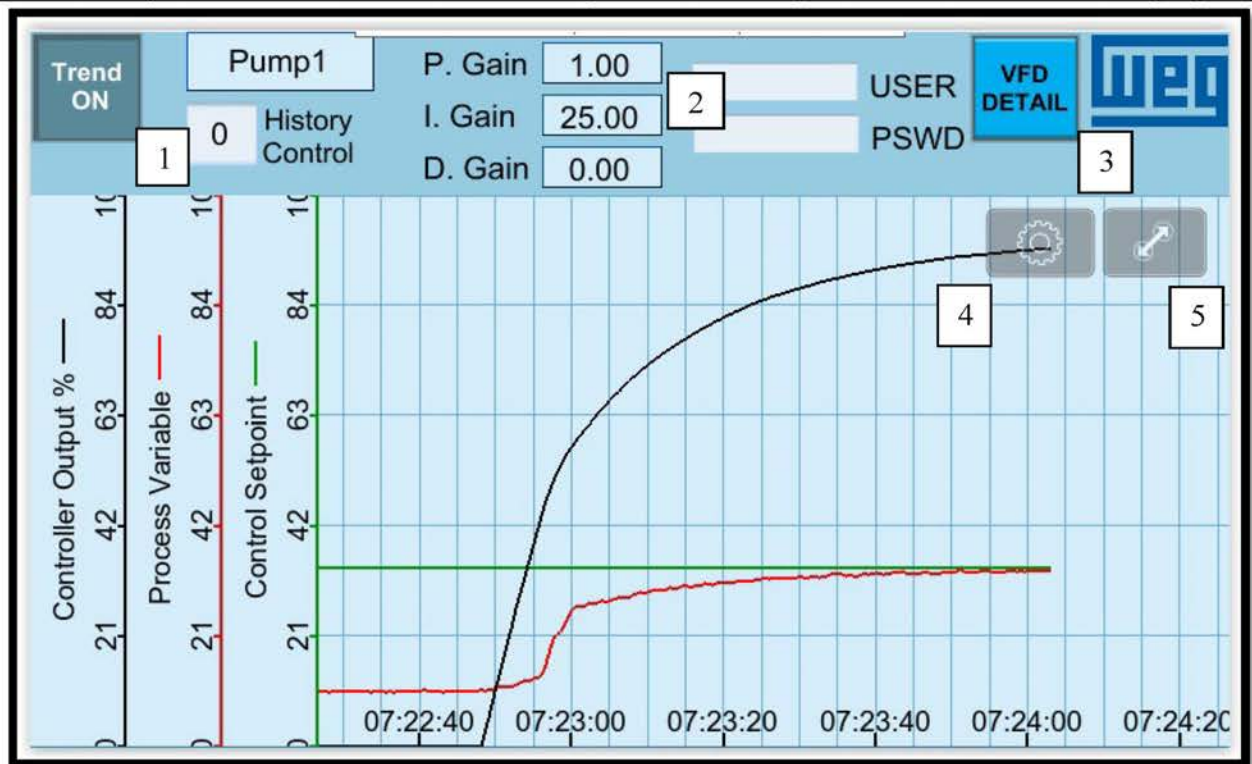


Table 5 PID Trend Screen (Current Master Only)

Call Out	Function	Description
1	Enable Trending/History Control	Starts and Stops trending for PID variables/History Control selects the day to display data for: 0 = today; 1 = yesterday; 2 = day before yesterday, etc., up to a maximum of 7
2	PID variables	Allows adjustment of PID controller variables, after logging in.
3	VFD Detail	Clicking on the button returns to the previous screen, VFD Detail, Table 2
4	Configuration	Allows selecting a date, can also be done using history control, refer to #1 in this table. A maximum of seven days' data is available from the PID trend
5	Zoom Control	Allows zooming in or out on the trend display



This screen is only available for the current master. Displays trending for PID Controller output / process variable / control setpoint and allows for adjusting PID tuning parameters to optimize controller performance.

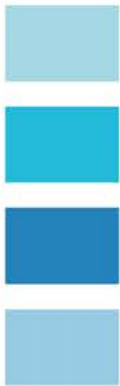
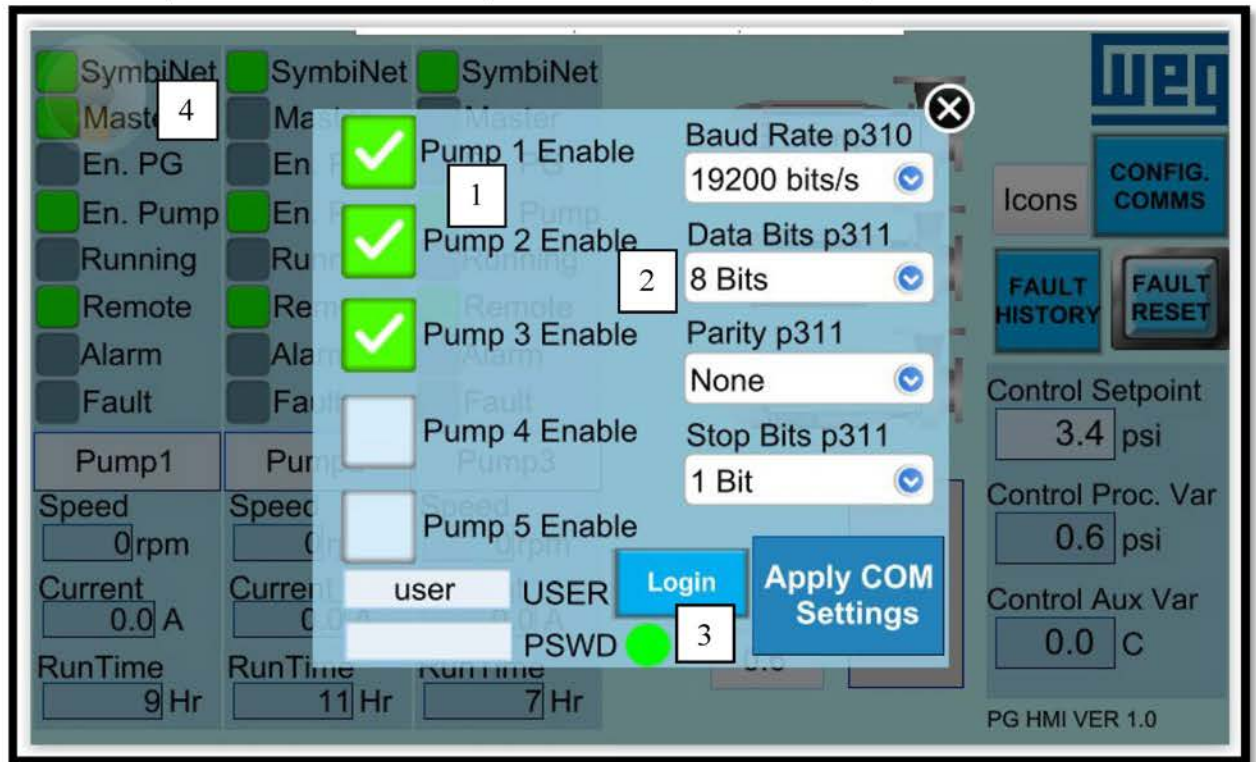


Table 6 Communications Configuration Screen

Call Out	Function	Description
1	Enable Pump	Includes pump in the system for the HMI
2	HMI com Settings	Adjust communication settings of the HMI to match the VFD modbus network
3	Apply Settings	Writes selected modbus settings to the HMI. A user must login to make changes to the communications configuration.
4	CMT Settings	Selecting this button, available on the "Config. Comms" screen allows access to the CMT configuration, including the IP address for the LAN port.



Allows operator to configure the number of pumps in the Pump Genius HMI system and change Pump Genius HMI communication settings. Opened from "Config. Comms" button in the upper right corner of the Main Screen. Provides access to the CMT configuration, please refer to the "EasyBuilderPro_UserManual" for more information.

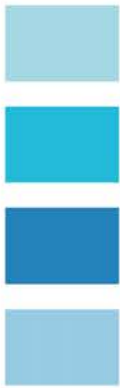


Table 7 Alarm History

Call Out	Function	Description
1	Fault Reset	Reset Faults, if the fault condition has cleared. Note, Alarms automatically reset in a VFD when the alarm condition clears
2	Configuration	Allows selecting a date range for alarms to display. Can also be used to select the category of alarms to display, according to the following: Category 11 = VFD1 Alarms; Category 12 = VFD2 Alarms; Category 13 = VFD3 Alarms; Category 14 = VFD4 Alarms; Category 15 = VFD5 Alarms; Category 20 = VFD1 - HMI Comms; Category 21 = VFD2 - HMI Comms; Category 22 = VFD3 - HMI Comms; Category 23 = VFD4 - HMI Comms; Category 24 = VFD5 - HMI Comms
3	Scroll	Allows scrolling up or down through the alarm history. When leaving the screen, the display returns to record number zero, in this case the VFD2 alarm with a trigger time of "12:47:52"

Device	Trigger date	Trigger time	Message
VFD2	09/12/2022	12:47:52	Pipe Charging (A 752)
VFD1	09/12/2022	12:47:52	Pipe Charging (A 752)
VFD2	09/12/2022	12:12:15	Acknowledging SymbiNet Network (A 764)
VFD1	09/12/2022	12:12:15	Acknowledging SymbiNet Network (A 764)
VFD3	09/12/2022	12:12:14	Acknowledging SymbiNet Network (A 764)

Displays the device, date and time of an alarm. The message matches exactly the alarm message displayed on a VFD

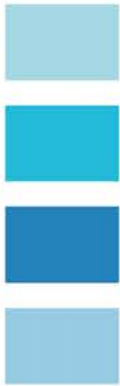
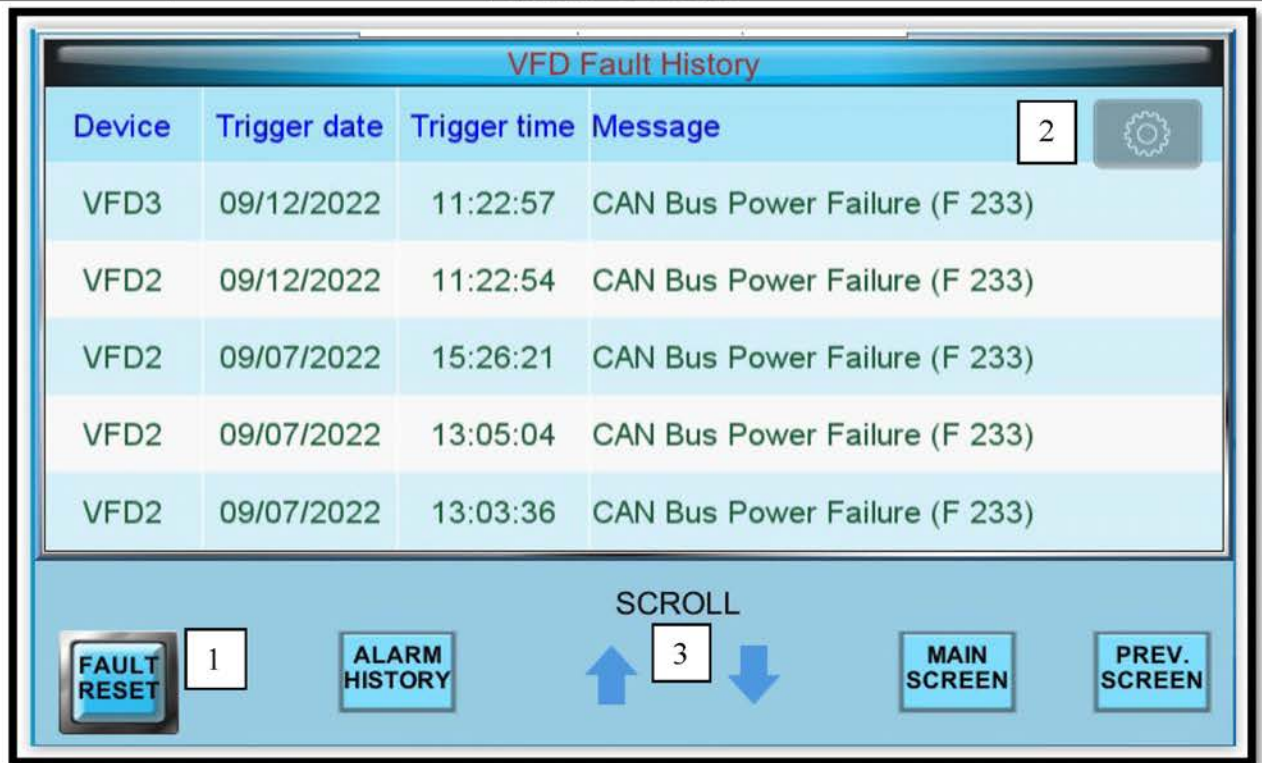


Table 8 Fault History

Call Out	Function	Description
1	Fault Reset	Reset Faults, if the fault condition has cleared. Note, Faults do not automatically reset in a VFD when the fault condition clears
2	Configuration	Allows selecting a date range for faults to display. Can also be used to select the category of faults to display, according to the following: Category 1 = VFD1 Faults; Category 2 = VFD2 Faults; Category 3 = VFD3 Faults; Category 4 = VFD4 Faults; Category 5 = VFD5 Faults
3	Scroll	Allows scrolling up or down through the fault history. When leaving the screen, the display returns to record number zero, in this case the VFD3 fault with a trigger time of "11:22:57"



Displays the device, date and time of a fault. The message matches exactly the fault message displayed on a VFD

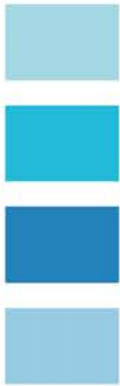


Table 9 Screen Saver

Call Out	Function	Description
1	Screen Saver	The screen saver is set to become active after 30 minutes of no activity on the HMI. The WEG logo moves randomly around a black background. Backlight control is not used, so the screen should never go completely blank, as long as the HMI is powered up
2	VFD Fault or Alarm Notification	Banner appears if the screen saver is active and a VFD fault or alarm occurs



Touching anywhere on the screen saver display opens the previously active screen

IT SHOULD BE NOTED THAT BANNER WILL REMAIN ON SCREEN UNTIL CLEARED BY USER. THIS ENSURES ANYONE APPROACHING THE HMI WILL BE ALERTED TO AN ACTIVE ALARM OR FAULT.

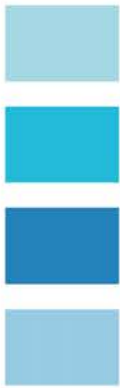

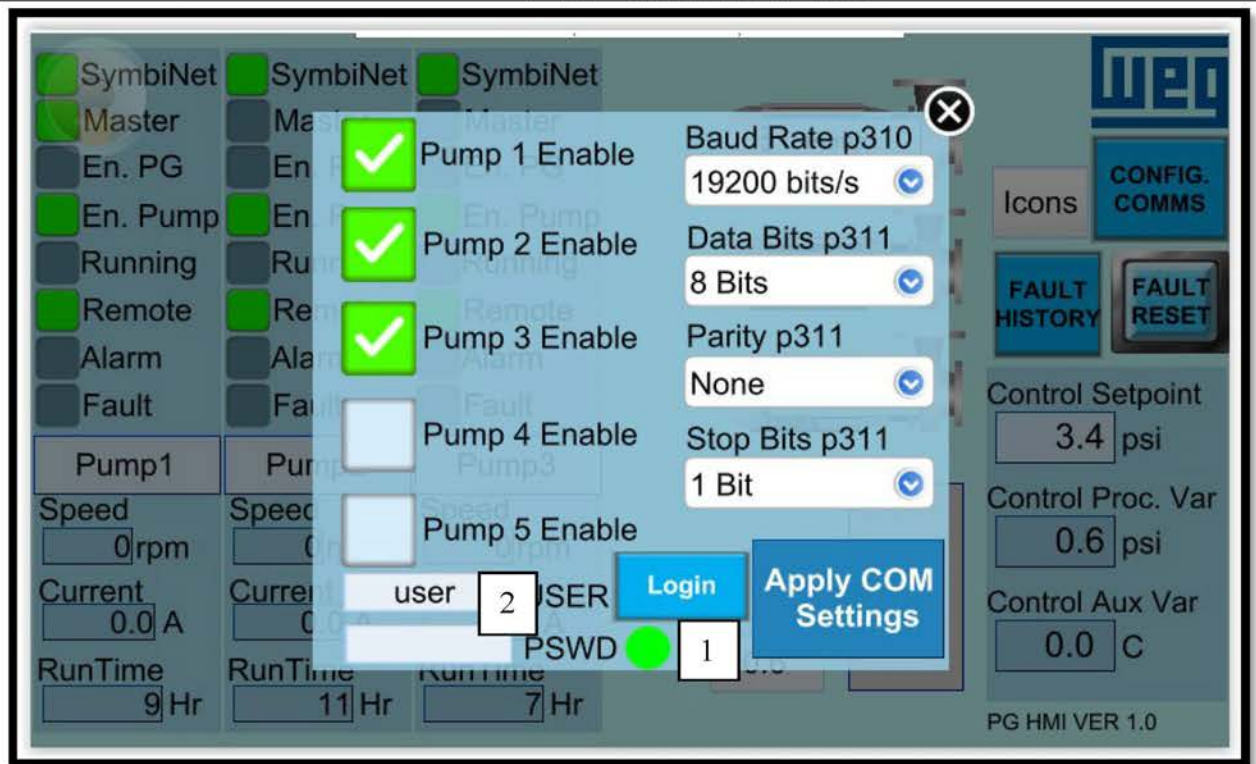


Table 10 Password Changes

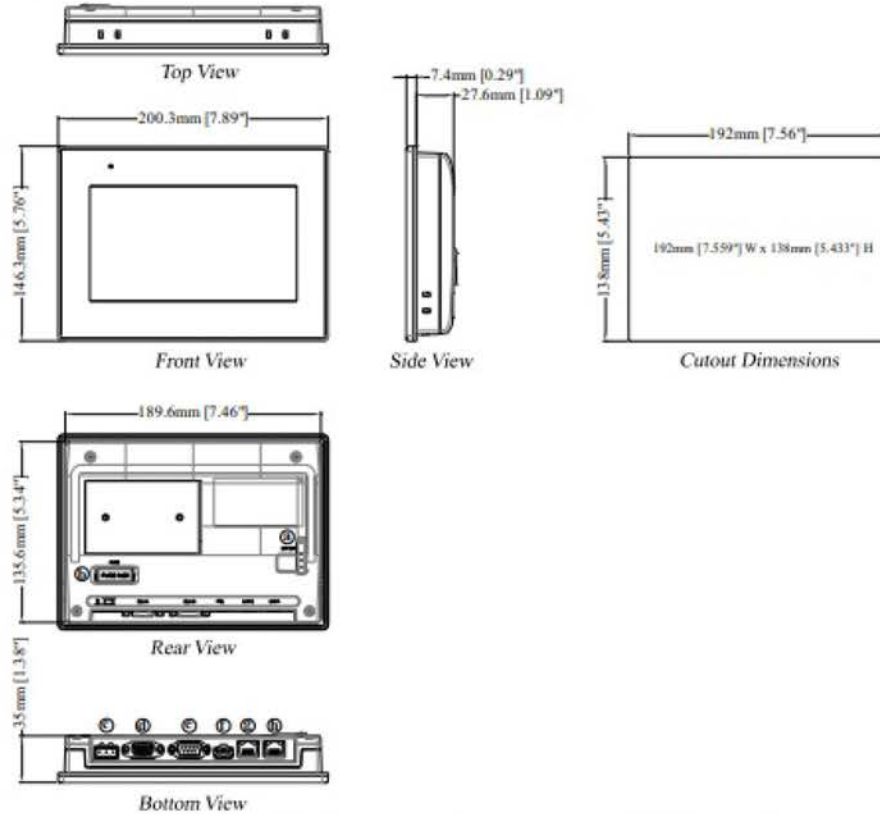
Call Out	Function	Description
1	Login	The first step to change a user password is to login as the user whose password is being changed. The  , "green dot", indicates the user is logged in. Click on the "Login" button and the text on the button will change to "Change Pswd".
2	Enter New and Old Password	Enter the old password in the user name field. Enter the new password in the PSWD field and press enter. The user password will now be the new password – to test, logout by leaving the password field blank and pressing enter, the "green dot" should disappear, press the "Change Pswd" button to revert to "Login", login using the new password. There is no way from the HMI to change user names: the system is configured with two users; "oper", has permission to make any password protected changes, including the system setpoint, refer to Table 1; "user" has permission to change the PID tuning parameters, Table 5, and the communications configuration, Table 6. The initial "oper" password is "@3072x", the initial "user" password is "user".



HMI Specifications

Display	Display	7" TFT
	Resolution	800 x 480
	Brightness (cd/m ²)	400
	Contrast Ratio	800:1
	Backlight Type	LED
	Backlight Life Time	>30,000 hrs.
	Colors	16.7M
	LCD Viewing Angle (T/B/R/L)	80/60/80/80
	Pixel Pitch (mm)	0.1926(H) x 0.179(V)
Touch Panel	Type	4-wire Resistive Type
	Accuracy	Active Area Length(X)±2%, Width(Y)±2%
Memory	Flash	4 GB
	RAM	1 GB
Processor		Quad-core RISC
I/O Port	SD Card Slot	N/A
	USB Host	USB 2.0 x 1
	USB Client	N/A
	Ethernet	LAN 1: 10/100 Base-T x 1 LAN 2: 10/100 Base-T x 1
	COM Port	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus Con.B: COM1 RS-232 4W, COM3 RS-232 2W* MPI is not supported.
	RS-485 Dual Isolation	N/A
	CAN Bus	Yes
	HDMI	N/A
	Audio Output	N/A
RTC		Built-in
Power	Input Power	24±20%VDC
	Power Isolation	Built-in
	Power Consumption	850mA@24VDC
	Voltage Resistance	500VAC (1 min.)
	Isolation Resistance	Exceed 50MΩ at 500VDC
Specification	PCB Coating	Yes
	Enclosure	Plastic
	Dimensions WxHxD	200.3 x 146.3 x 35.0 mm
	Panel Cutout	192 x 138 mm
	Weight	Approx. 0.6 kg
	Mount	Panel mount
Environment	Protection Structure	UL Type 4X (indoor use only) / NEMA4 / IP66 Compliant Front Panel
	Storage Temperature	-20° ~ 60°C (-4° ~ 140°F)
	Operating Temperature	0° ~ 55°C (32° ~ 131°F)
	Relative Humidity	10% ~ 90% (non-condensing)
	Vibration Endurance	10 to 25Hz (X, Y, Z direction 2G 30 minutes)
Certificate	CE	CE marked
	UL	cULus Listed
Software	EasyBuilder Pro	V6.04.02 or later versions
	Weincloud	EasyAccess 2.0 (Optional), Dashboard* (Optional)
	CODESYS®	Optional

Dimensions



a	DIP SW	e	Con.B: COM1 RS-232 4W, COM3 RS-232 2W
b	Fuse	f	USB Host Port
c	Power Connector	g	LAN 2
d	Con.A: COM2 RS-485 2W/4W, COM3 RS-485 2W, CAN Bus	h	LAN 1

Accessories

- cMT3072X:**
7" TFT LCD HMI, 4GB flash memory, 1GB RAM on board
- RP0060700 (included in package)**
7" Screen Protective Film
- RZUSK7010 (included in package)**
USB Clamp & Tying Strap

Optional:

- RZ0CDS000:** CODESYS activation card & license sticker
- RZACEA020:** EasyAccess 2.0 Activation Card

Pin Assignment:

Con.B: COM1 / COM3 [RS232] 9 Pin, Male, D-sub

PIN#	COM1 [RS232]4W	COM3 [RS232]2W
1		
2	RxD	
3	TxD	
4		
5	GND	
6		
7	RTS	TxD
8	CTS	RxD
9	GND	

Con.A: COM2 / COM3 [RS485]/ CAN Bus, 9 Pin, Female, D-sub

PIN#	COM2 [RS485]2W	COM2 [RS485]4W	COM3 [RS485]2W	CAN Bus
1	Data-	Rx-		
2	Data+	Rx+		
3		Tx-		
4		Tx+		
5	GND			
6			Data-	
7				CAN_L
8				CAN_H
9			Data+	

Appendix A – Modbus TCP Mapping

There is a Modbus TCP server available in the Pump Genius HMI. Pump Genius data can be monitored by a Modbus TCP capable device using the mapping presented below.

The Modbus TCP server is accessible through the LAN2 connection on the Pump Genius HMI. For information on setting the IP address for LAN2, please refer to the HMI "EasyBuilderPro_UserManual". The port number is 502.

An export from the PG HMI of the Modbus tag mapping is available if requested.

HMI Modbus TCP Server Mapping File		
Description	Modbus Address	HMI Address
Control Setpoint	30001	RW-26
PID Controller Output	30023	LW-2000
Process Variable	30002	LW-36
VFD1 Alarm	10065	LB-65
VFD1 Alarm Number	30024	LW-501
VFD1 Current	30008	LW-1201
VFD1 En PG	10045	LB-45
VFD1 Enable Pump	10050	LB-50
VFD1 Fault	10074	LB-74
VFD1 Fault Number	30029	LW-551
VFD1 Master	10040	LB-40
VFD1 Remote	10060	LB-60
VFD1 Running	10055	LB-55
VFD1 Runtime	30003	LW-48
VFD1 Speed	30018	LW-1200
VFD1 Sympi Configured	10035	LB-35
VFD1 Torque %	30013	LW-1202
VFD2 Alarm	10066	LB-66
VFD2 Alarm Number	30025	LW-502
VFD2 Current	30009	LW-1204
VFD2 En PG	10046	LB-46
VFD2 Enable Pump	10051	LB-51
VFD2 Fault	10075	LB-75
VFD2 Fault Number	30030	LW-552
VFD2 Master	10041	LB-41
VFD2 Remote	10061	LB-61
VFD2 Running	10056	LB-56
VFD2 Runtime	30004	LW-49
VFD2 Speed	30019	LW-1203
VFD2 Sympi Configured	10036	LB-36
VFD2 Torque %	30014	LW-1205
VFD3 Alarm	10067	LB-67
VFD3 Alarm Number	30026	LW-503
VFD3 Current	30010	LW-1207



HMI Modbus TCP Server Mapping File		
Description	Modbus Address	HMI Address
VFD3 En PG	10047	LB-47
VFD3 Enable Pump	10052	LB-52
VFD3 Fault	10076	LB-76
VFD3 Fault Number	30031	LW-553
VFD3 Master	10042	LB-42
VFD3 Remote	10062	LB-62
VFD3 Running	10057	LB-57
VFD3 Runtime	30005	LW-50
VFD3 Speed	30020	LW-1206
VFD3 Symbi Configured	10037	LB-37
VFD3 Torque %	30015	LW-1208
VFD4 Alarm	10068	LB-68
VFD4 Alarm Number	30027	LW-504
VFD4 Current	30011	LW-1210
VFD4 En PG	10048	LB-48
VFD4 Enable Pump	10053	LB-53
VFD4 Fault	10077	LB-77
VFD4 Fault Number	30032	LW-554
VFD4 Master	10043	LB-43
VFD4 Remote	10063	LB-63
VFD4 Running	10058	LB-58
VFD4 Runtime	30006	LW-51
VFD4 Speed	30021	LW-1209
VFD4 Symbi Configured	10038	LB-38
VFD4 Torque %	30016	LW-1211
VFD5 Alarm	10069	LB-69
VFD5 Alarm Number	30028	LW-505
VFD5 Current	30012	LW-1213
VFD5 En PG	10049	LB-49
VFD5 Enable Pump	10054	LB-54
VFD5 Fault	10078	LB-78
VFD5 Fault Number	30033	LW-555
VFD5 Master	10044	LB-44
VFD5 Remote	10064	LB-64
VFD5 Running	10059	LB-59
VFD5 Runtime	30007	LW-52
VFD5 Speed	30022	LW-1212
VFD5 Symbi Configured	10039	LB-39
VFD5 Torque %	30017	LW-1214

Appendix B – BACnet/IP Server Mapping

There is a BACnet/IP server available in the Pump Genius HMI. Pump Genius data can be monitored by a BACnet IP capable device using the mapping presented below.

The BACnet/IP server is accessible through the LAN2 connection on the Pump Genius HMI. For information on setting the IP address for LAN2, please refer to the HMI "EasyBuilderPro_UserManual". The port number is 47808.

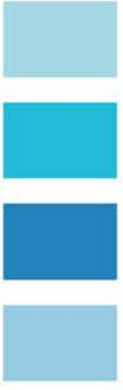
The property of the tag used is always the Present Value, i.e., in the Pump Genius HMI, the value for the Process Variable is transferred to BACnet tag: "(2,1)AnalogValue_1.PresentValue(ID#85)".

An export of the BACnet tags from the PG HMI is available if requested.

HMI BACnet Export Version : 1.00			
DEVICE_ID	OBJECT_TYPE	OBJECT_NAME	DESCRIPTION
4194302	2	AnalogValue_0	Control Setpoint
4194302	2	AnalogValue_1	Process Variable
4194302	2	AnalogValue_2	VFD1 Runtime
4194302	2	AnalogValue_3	VFD2 Runtime
4194302	2	AnalogValue_4	VFD3 Runtime
4194302	2	AnalogValue_5	VFD4 Runtime
4194302	2	AnalogValue_6	VFD5 Runtime
4194302	2	AnalogValue_7	VFD1 Current
4194302	2	AnalogValue_8	VFD2 Current
4194302	2	AnalogValue_9	VFD3 Current
4194302	2	AnalogValue_10	VFD4 Current
4194302	2	AnalogValue_11	VFD5 Current
4194302	2	AnalogValue_12	VFD1 Torque %
4194302	2	AnalogValue_13	VFD2 Torque %
4194302	2	AnalogValue_14	VFD3 Torque %
4194302	2	AnalogValue_15	VFD4 Torque %
4194302	2	AnalogValue_16	VFD5 Torque %
4194302	2	AnalogValue_17	VFD1 Speed
4194302	2	AnalogValue_18	VFD2 Speed
4194302	2	AnalogValue_19	VFD3 Speed
4194302	2	AnalogValue_20	VFD4 Speed
4194302	2	AnalogValue_21	VFD5 Speed
4194302	2	AnalogValue_22	PID Controller Output %
4194302	2	AnalogValue_23	VFD1 Alarm Number
4194302	2	AnalogValue_24	VFD2 Alarm Number
4194302	2	AnalogValue_25	VFD3 Alarm Number
4194302	2	AnalogValue_26	VFD4 Alarm Number
4194302	2	AnalogValue_27	VFD5 Alarm Number
4194302	2	AnalogValue_28	VFD1 Fault Number
4194302	2	AnalogValue_29	VFD2 Fault Number
4194302	2	AnalogValue_30	VFD3 Fault Number

HMI BACnet Export Version : 1.00

DEVICE_ID	OBJECT_TYPE	OBJECT_NAME	DESCRIPTION
4194302	2	AnalogValue_31	VFD4 Fault Number
4194302	2	AnalogValue_32	VFD5 Fault Number
4194302	4	BinaryOutput_0	VFD1 Symbi Configured
4194302	4	BinaryOutput_1	VFD1 Master
4194302	4	BinaryOutput_2	VFD1 PG En
4194302	4	BinaryOutput_3	VFD1 Enable Pump
4194302	4	BinaryOutput_4	VFD1 Running
4194302	4	BinaryOutput_5	VFD1 Remote
4194302	4	BinaryOutput_6	VFD1 Fault
4194302	4	BinaryOutput_7	VFD1 Alarm
4194302	4	BinaryOutput_8	VFD2 Symbi Configured
4194302	4	BinaryOutput_9	VFD2 Master
4194302	4	BinaryOutput_10	VFD2 PG En
4194302	4	BinaryOutput_11	VFD2 Enable Pump
4194302	4	BinaryOutput_12	VFD2 Running
4194302	4	BinaryOutput_13	VFD2 Remote
4194302	4	BinaryOutput_14	VFD2 Fault
4194302	4	BinaryOutput_15	VFD2 Alarm
4194302	4	BinaryOutput_16	VFD3 Symbi Configured
4194302	4	BinaryOutput_17	VFD3 Master
4194302	4	BinaryOutput_18	VFD3 PG En
4194302	4	BinaryOutput_19	VFD3 Enable Pump
4194302	4	BinaryOutput_20	VFD3 Running
4194302	4	BinaryOutput_21	VFD3 Remote
4194302	4	BinaryOutput_22	VFD3 Fault
4194302	4	BinaryOutput_23	VFD3 Alarm
4194302	4	BinaryOutput_24	VFD4 Symbi Configured
4194302	4	BinaryOutput_25	VFD4 Master
4194302	4	BinaryOutput_26	VFD4 PG En
4194302	4	BinaryOutput_27	VFD4 Enable Pump
4194302	4	BinaryOutput_28	VFD4 Running
4194302	4	BinaryOutput_29	VFD4 Remote
4194302	4	BinaryOutput_30	VFD4 Fault
4194302	4	BinaryOutput_31	VFD4 Alarm
4194302	4	BinaryOutput_32	VFD5 Symbi Configured
4194302	4	BinaryOutput_33	VFD5 Master
4194302	4	BinaryOutput_34	VFD5 PG En
4194302	4	BinaryOutput_35	VFD5 Enable Pump
4194302	4	BinaryOutput_36	VFD5 Running
4194302	4	BinaryOutput_37	VFD5 Remote
4194302	4	BinaryOutput_38	VFD5 Fault
4194302	4	BinaryOutput_39	VFD5 Alarm
4194302	8	Weintek HMI	Weintek BACnet Server



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