Installation, Operation
and Maintenance

MyConnect

FLYGT
a xylem brand

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Introduction and Safety

Introduction

CAUTION:

- Read this manual carefully before installing and using the product. Improper use of the product can cause personal injury and damage to property, and may void the warranty.
- Observe accident prevention regulations in force.
- Save this manual for future reference, and keep it readily available at the location of the unit.

Purpose of this manual

The purpose of this manual is to provide the necessary information for:

- Installation
- Operation
- Maintenance

Safety

Precautions

DANGER: Electrical Hazard

Before starting work on the unit, make sure that the unit and the control panel are isolated from the power supply and cannot be energized. This applies to the control circuit as well.

WARNING: Electrical Hazard

Risk of electrical shock or burn. A certified electrician must supervise all electrical work. Comply with all local codes and regulations.

CAUTION:

- The operator must be aware of safety precautions to prevent physical injury.
- You must observe the instructions contained in this manual. Failure to do so could result in physical injury, damage, or delays.

Safety terminology and symbols

About safety messages

It is extremely important that you read, understand, and follow the safety messages and regulations carefully before handling the product. They are published to help prevent these hazards:

- Personal accidents and health problems
- Damage to the product
- Product malfunction

Hazard levels

Hazard level	Indication
DANGER:	A hazardous situation which, if not avoided, will result in death or serious injury
WARNING:	A hazardous situation which, if not avoided, could result in death or serious injury
CAUTION:	A hazardous situation which, if not avoided, could result in minor or moderate injury
NOTICE:	• A potential situation which, if not avoided, could result in undesirable conditions • A practice not related to personal injury

Electrical hazards

Electrical hazards are indicated by the following specific symbol. This symbol warns for presence of a dangerous voltage.

Electrical Hazard:

User safety and health

Introduction

All government regulations, local health and safety directives must be observed.

Prevent danger due to electricity

All danger due to electricity must be avoided. Electrical connections must always be carried out in compliance with the following:

- The standard connections shown in the product documentation that is delivered together with the product
- All international, national, state, and local regulations. (For details, consult the regulations of your local electricity supplier.)

For more information about requirements, see sections dealing specifically with electrical connections.

Product warranty

Coverage

Xylem undertakes to remedy faults in products from Xylem under these conditions:

- The fault is due to defects in design, materials, or workmanship.
- The fault is reported to a Xylem representative within the warranty period.
- The product is used only under the conditions described in this manual.
- All service and repair work is done by qualified and authorized personnel. All modifications must be done by qualified technicians.
- Genuine Xylem parts are used.

Limitations

The warranty does not cover faults caused by these situations:

- Deficient maintenance
- Improper installation
- Modifications or changes to the product and installation made without consulting Xylem
- Incorrectly executed repair work
- Normal wear and tear

Xylem assumes no liability for these situations:

- Bodily injury
- Material damage
- Economic loss

Warranty claim

Xylem products are high quality products with expected reliable operation and long life. However, should the need arise for a warranty claim, then contact your Xylem representative.

Qualification of personnel

All work on the product should be carried out by certified electricians or Xylem authorized mechanics.

Xylem disclaims all responsibility for work done by untrained, unauthorized personnel.

Support

Xylem only supports products that have been tested and approved. Xylem does not support unapproved equipment.

Transportation and Storage

Inspect the delivery

Inspect the package

1. Inspect the package for damaged or missing items upon delivery.
2. Note any damaged or missing items on the receipt and freight bill.
3. File a claim with the shipping company if anything is out of order.

   If the product has been picked up at a distributor, make a claim directly to the distributor.

Inspect the product

1. Remove packing materials from the product.

   Dispose of all packing materials in accordance with local regulations.
2. Inspect the product to determine if any parts are damaged or missing.
3. If applicable, unfasten the product by removing any screws, bolts, or straps.

   For your personal safety, be careful when you handle nails and straps.
4. Contact your sales representative if anything is out of order.

Product Description

Product design

Design and usage

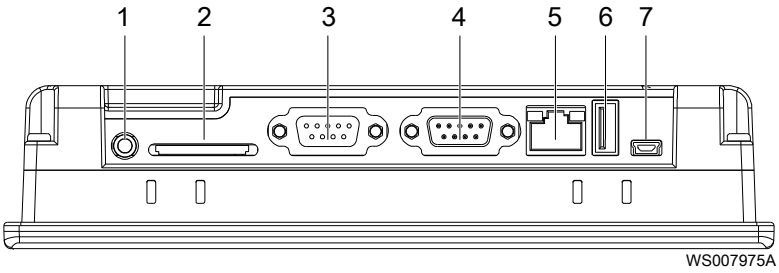
The MyConnect HMI is a touchscreen interface for its designated pump controller. The touchscreen provides indication, control and supervision of sewage treatment and wastewater plants with one to four pumps.

Installation

The HMI is installed close to the pump station, on a wall or cabinet door. One pump controller unit can be connected to the HMI through RS485.

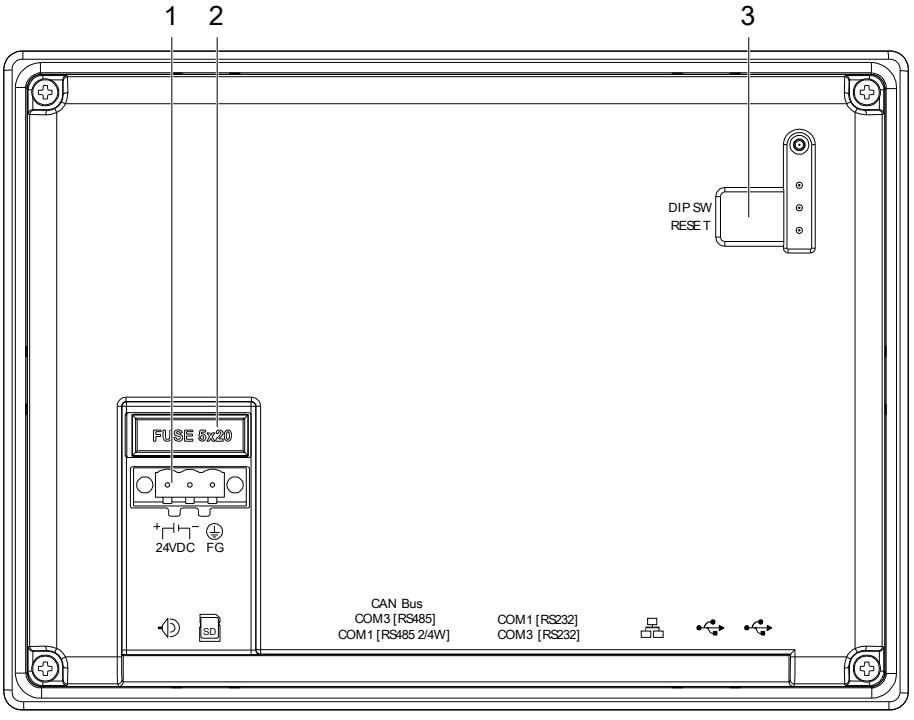
Ports and connectors

Ports on bottom



1. Audio Line Out - 3.5 mm jack (not used)
2. SD Card Slot SDHC (not used)
3. COM3 RS485 2 W. Supports MPI 187.5 K (for communication to the pump controller)
4. COM1 RS232 2 W (not used)
5. Ethernet Port 10/100 Base-T (for remote connections to the HMI using VNC)
6. USB Host USB 2.0 (not used)
7. USB Client USB 2.0 (used for backup)

Connectors on back



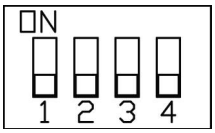
1. Power supply
2. Pre-installed fuse
3. DIP switch and reset button that is protected by rubber cover

Pre-installed fuse

Voltage	Ampere	Size
250 V	F 1.25 A	5 x 20 mm

DIP switch

The default setting for the DIP switch is OFF for all positions.



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- This setting should not be altered.
- The DIP SW switches should only be handled by qualified personnel or Xylem-authorized personnel.

Reset button

The reset button performs a soft restart of the unit. A reset does not influence a connected pump controller or the configuration in the HMI.

Mechanical Installation

Precautions

Before starting work, make sure that the safety instructions in the chapter *Introduction and Safety* have been read and understood.

Explosive zones

WARNING:

Do not use this unit in environments that may contain flammable/explosive or chemically aggressive gases or powders.

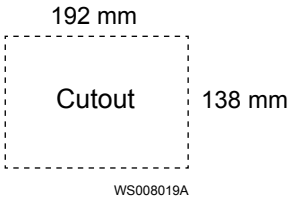
Mount the HMI

Recommended tools:

- Phillips screwdriver
- Saw (depending on wall surface)
- Drill and drilling machine (optional)

The HMI is attached to a wall or cabinet door.

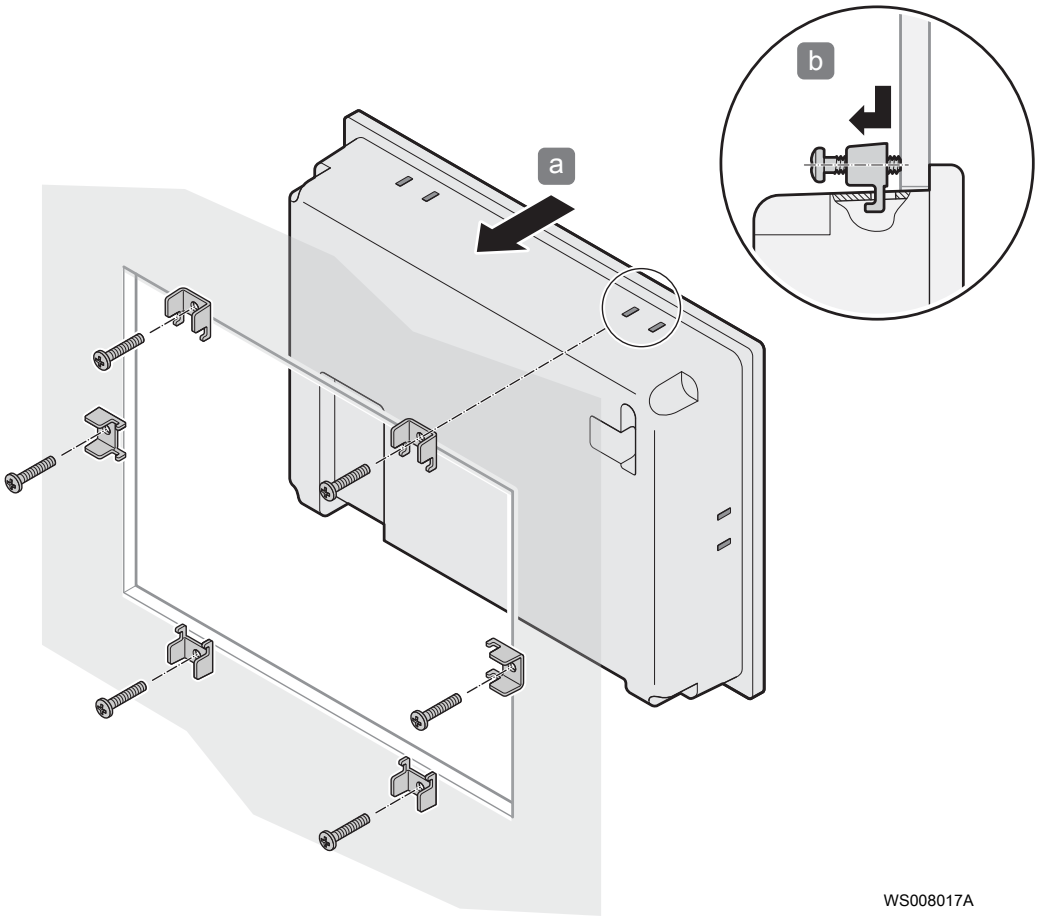
1. Make a rectangle hole in the wall or cabinet door.



2. Insert the metal brackets in the holes on the side of the unit according to the figure to fasten the display. Tighten the screws, 0.3-0.4 Nm.

NOTICE:

Allow approximately 5 cm of space behind the display to keep it ventilated.


a
b
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Electrical Installation

Precautions

Before starting work, make sure that the safety instructions in the chapter *Introduction and Safety* have been read and understood.

DANGER: Electrical Hazard

Before starting work on the unit, make sure that the unit and the control panel are isolated from the power supply and cannot be energized. This applies to the control circuit as well.

DANGER: Electrical Hazard

All electrical equipment must be grounded (earthed). Test the ground (earth) lead to verify that it is connected correctly. Frequently inspect electrical systems to ensure that the path to ground is continuous.

WARNING: Electrical Hazard

Risk of electrical shock or burn. A certified electrician must supervise all electrical work. Comply with all local codes and regulations.

WARNING: Electrical Hazard

There is a risk of electrical shock or explosion if the electrical connections are not correctly carried out, or if there is fault or damage on the product. Visually inspect equipment for damaged cables, cracked casings or other signs of damage. Make sure that electrical conections have been correctly made.

CAUTION: Electrical Hazard

Prevent cables from becoming sharply bent or damaged.

Requirements

These requirements apply for electrical installation:

- The mains voltage and frequency must agree with the specifications for the product.
- Circuit breakers must be installed between the main voltage line and this unit.
- All fuses and circuit breakers must have the proper rating, and comply with local regulations.
- The cables must be in accordance with the local rules and regulations.
- If the power cable is jerked loose, then the ground (earth) conductor must be the last conductor to come loose from its terminal. Make sure that the ground (earth) conductor is longer than the phase conductors at both ends of the cable.

Pump controller settings

General requirements

The pump controller may be configured as usual, except for the requirements in this section that must be fulfilled before the HMI is ready for operation:

- The pump controller unit must have firmware version 844008-013 or later, to support the seven-day history function in the HMI.
- Control word in Pump control 1 must be activated, since this function is used by the HMI.

Analog inputs

The following analog inputs must be connected:

Analog input	Signal name	Scaling 4 mA	Scaling 20 mA	Type of sensor	Units	Averaging
AI 1	Level	0	Depends on the connected unit	Level	m, 2 decimals	0 s
AI 2	Current P1	0	Depends on the connected unit	Other units	A, 1 decimal	0 s
AI 3	Current P2	0	Depends on the connected unit	Other units	A, 1 decimal	0 s
AI4	Current P3	0	Depends on the connected unit	Other units	A, 1 decimal	0 s
AI5	Current P4	0	Depends on the connected unit	Other units	A, 1 decimal	0 s

Digital outputs

The following digital outputs must be connected. If three or four pumps are used, an extra I/O module providing additional digital outputs is required:

Digital output	Signal name	Relay function	Closing time, seconds on time	Delay
DO 1	Start/Stop P1	NO- constant	0 s	0 s
DO 2	Start/Stop P2	NO- constant	0 s	0 s
DO 3	Start/Stop P3	NO- constant	0 s	0 s
DO 4	Start/Stop P4	NO- constant	0 s	0 s

Automatically created settings

The following configuration is automatically created in the pump controller, depending on the number of pumps used. The HMI overwrites existing settings in the configuration in the pump controller:

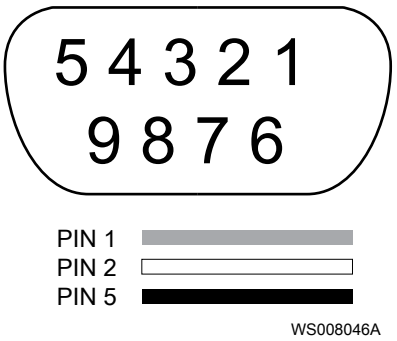
Virtual Analog Input	Signal Name	High Alarm	Low Alarm	Explanation
VAI 3	Current P1 (Illustrated in HMI)	In use, Yes	In use, Yes	This VAI is used for setpoint for upper and lower limits in the main status screen ampere view.
VAI 4	Current P2 (Illustrated in HMI)	In use, Yes	In use, Yes	This VAI is used for the setpoint for upper and lower limits in the main status screen ampere view.
VAI 5	Current P3 (Illustrated in HMI)	In use, Yes	In use, Yes	This VAI is used for the setpoint for upper and lower limits in the main status screen ampere view.
VAI 6	Current P4 (Illustrated in HMI)	In use, Yes	In use, Yes	This VAI is used for the setpoint for upper and lower limits in the main status screen ampere view.

Reference

For more information about settings, see the MyConnect Installation, Operations and Maintenance manual, pub no 884758.

Connect the HMI to the pump controller

The figure shows the wiring diagram for the COM cable.



PIN number	Signal	Wire color
1	B	Gray
2	A	White
5	GND	Black

1. Connect the cable to the RS485 port on the HMI.
2. Depending on the pump station configuration, select the applicable wiring diagram to connect the cable to the INET or the CNET port on the pump controller:

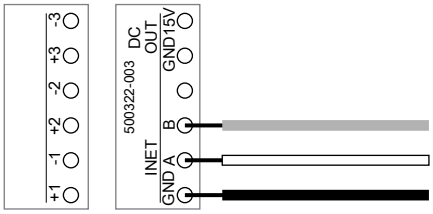
NOTICE:

When using the CNET port, Wi-Fi should be disabled in the pump controller.

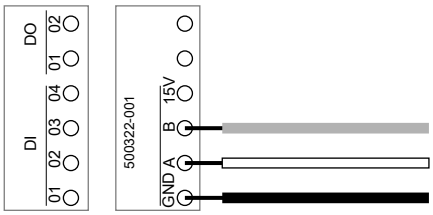
NOTICE:

When using the INET port, it cannot be used by additional units simultaneously.

INET



CNET



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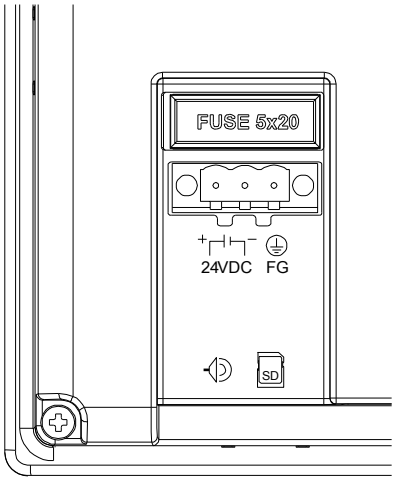
Connect the power supply

The HMI must be supplied with 24 VDC ± 20%, minimum 400 mA.

Connect the power supply according to the figure.



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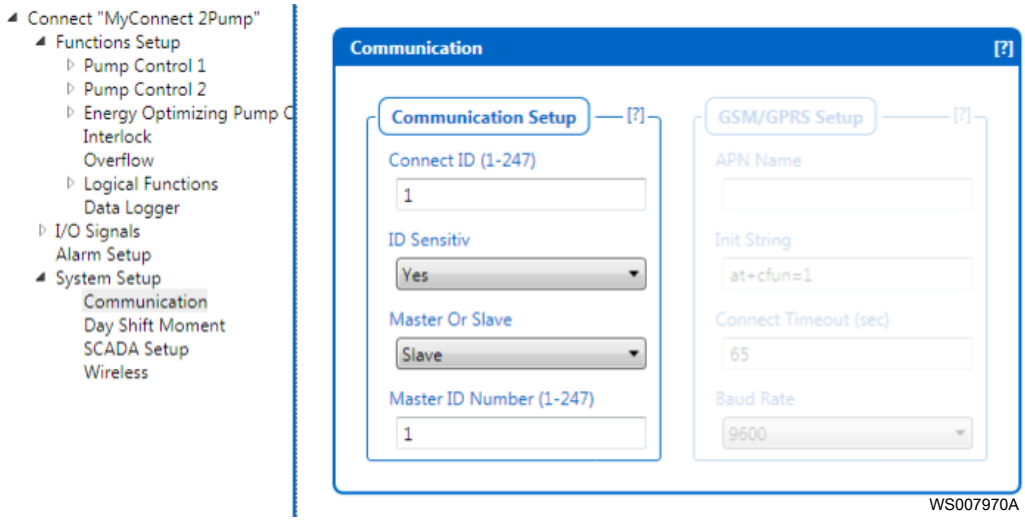
Terminal	Function
-	24 VDC minus
+	24 VDC plus
FG	Functional ground

Check configuration of the HMI

Check that the communication setup of the HMI is correctly made in the pump controller using the MyConnect Link software:



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For more information about MyConnect Link, see the MyConnect Installation, Operation and Maintenance manual, pub no 884758.

System Setup and Operation

Precautions

WARNING:

Do not operate the unit in an area where explosive gases are present.

CAUTION:

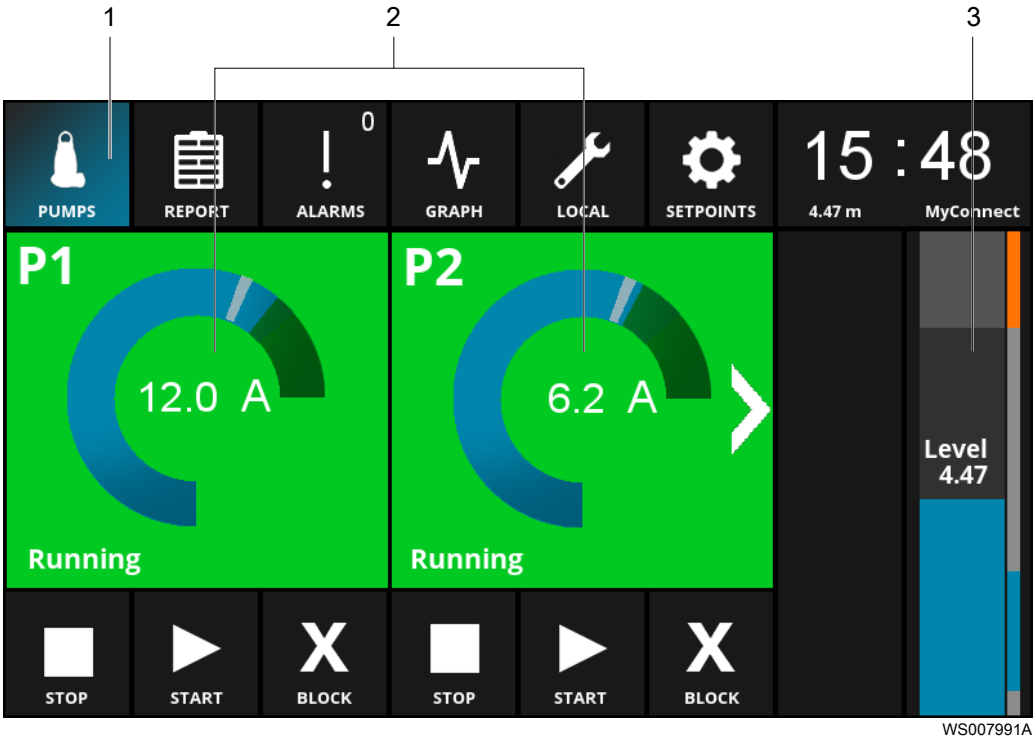
The operator must be aware of safety precautions to prevent physical injury.

Operator interface overview

Main status screen

Overview

PUMPS is the main status screen when the HMI is activated. It shows overview information of the connected pumps and the sump level in the pump station. The HMI turns off after five minutes to minimize power consumption. The main status screen contains the following items:



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1. Menu, which can be tapped to open each screen.
2. Pump **P1**/**P2**/**P3**/**P4**, which can be tapped to display detailed information of each pump. Tap the arrow on the left or right to browse between the pumps.
3. Level, which shows pump well information.

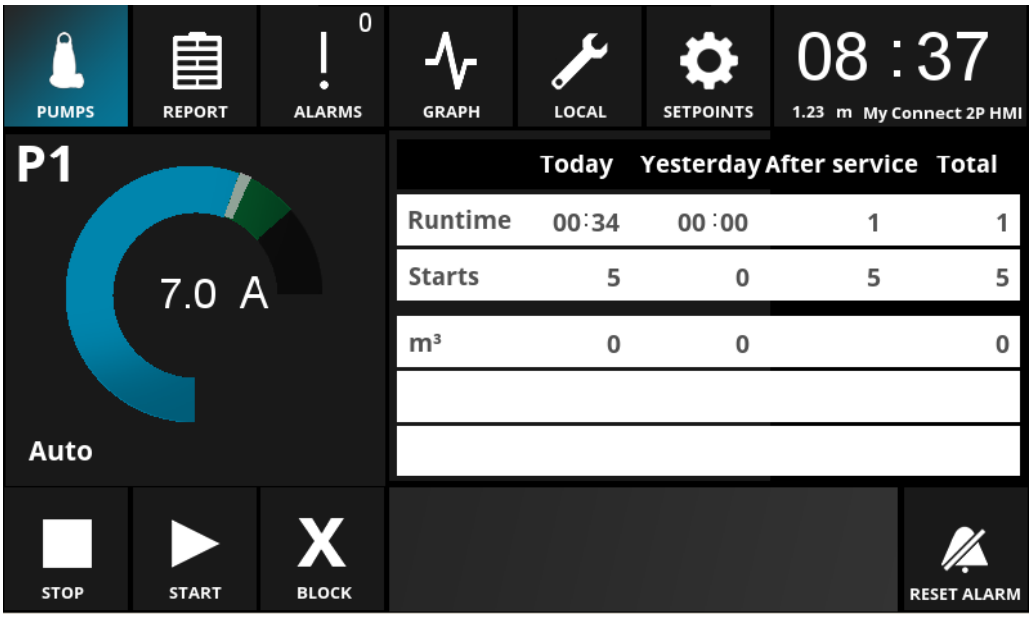
Level

Parameter	Color	Description
Left level bar	Blue	The left bar illustrates the actual level of the well. If the actual level of the well is acceptable, the color is blue.
	Orange	If the level is below or above acceptable values, the level bar color changes to orange.
Level text	-	The numerical value for the actual level (**Level**) in the well.
Right level bars	Orange	High and low alarm levels.
	Blue	Acceptable levels.
	Gray	Area above or below the start or stop levels.

Level can be tapped to open **SETPOINTS** > **Pump settings**, where the start and stop levels are adjustable.

Pump subscreen

When tapping on a pump on the main status screen, the Pump subscreen is displayed.



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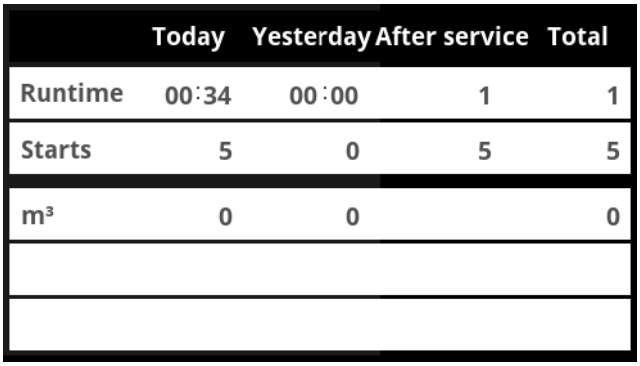
Parameter	Color	Status	Description
Pump background color	Gray	Stopped	The pump has stopped.
	Green	Operating	The pump is active (operating).
	Red	Error	The pump is faulty.
	Blue	Blocked	The pump is not in operation.

Parameter	Color	Status	Description
Ampere meter	Blue	-	The ampere meter shows the actual power consumption of the pump. If the actual power consumption level of the pump is acceptable, the color is blue.
	Orange		If the acceptable range is exceeded, the Ampere meter changes from blue to orange.
	Green area	-	The safe range of ± 10% of the nominal current. This range is the acceptable power consumption deviation.
	Gray (line)	-	The nominal current. This value can be adjusted in **SETPOINTS** > **Current**. This reading makes it possible to evaluate if the actual power consumption is proportional to the nominal current of the individual pump.
Ampere meter, numerical value	-	-	The numerical ampere value of the actual power consumption.

Operating data



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Parameter	Description
Runtime	The runtime for today, yesterday, since the last service, and in total. The last service value is reset in **LOCAL** > **Readout values**.
Starts	The number of starts for today, yesterday, after service, and in total.
m³	The pumped volume for today, yesterday, and in total.

Buttons

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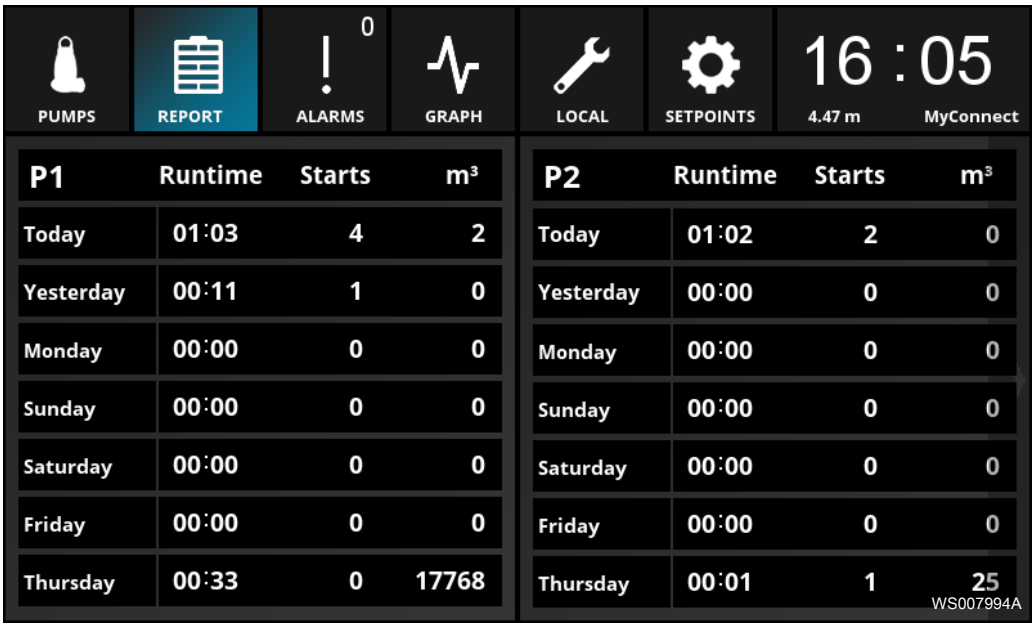
Parameter	Description
STOP	Stops the pump.
START	Start the pump.
BLOCK	Blocks the pump. When the pump is blocked, no alarms are sent from the pump controller to the SCADA system. Tap START to restart the pump.
RESET ALARM	Acknowledges all active alarms in the pump controller. When the alarm is reset, acknowledged alarms are no longer sent from the pump controller.

REPORT

Screen overview

REPORT shows an overview of the operation of the pumps over the past seven days.



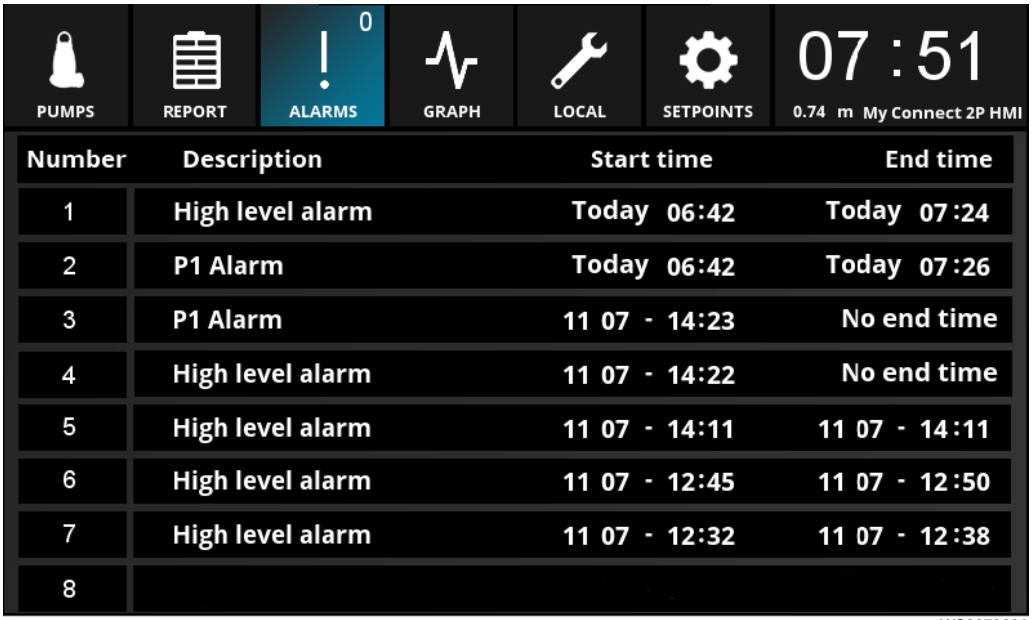
WS007994A

Parameter	Description
P1/P2/P3/P4	The history over seven days. Tap the arrow on the left or right to browse between the pumps.
Runtime	The runtime of the pumps in hours and minutes for each day.
Starts	The number of starts for the pumps for each day.
m³	The pumped volume for the pumps for each day.

ALARMS

Screen overview

ALARMS shows the eight most recent alarms.



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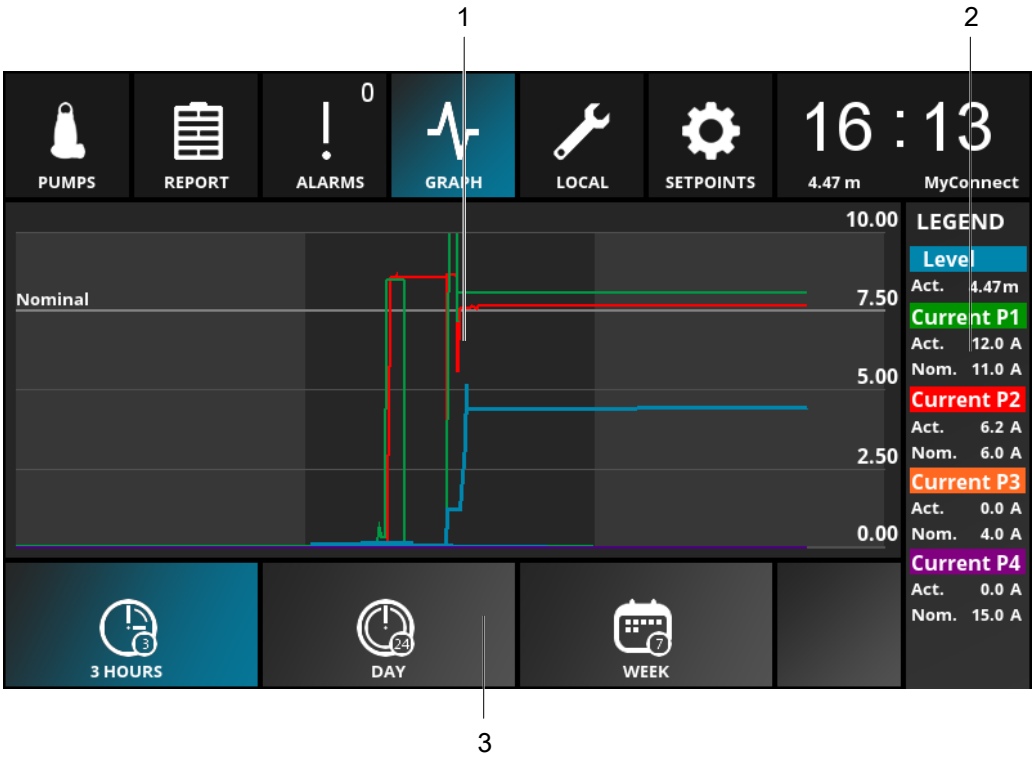
Parameter	Description
Number	The chronological order of the eight most recent alarms.
Description	The type of alarm occurred, as defined from the I/O unit.
Start time	The start time of the alarm. If the alarm occurred more than 24 hours ago, the date is shown.
End time	The end time of the alarm. If the alarm ended more than 24 hours ago, the date is shown.

To acknowledge all active alarms, go to the main status screen PUMPS, tap the pump in questions and then tap RESET ALARM.

GRAPH

Screen overview

GRAPH visually shows the power consumption during selected time periods.



1. Graphs
2. **LEGEND**
3. Time span buttons

Graph

Parameter	Color	Description
Level curve (m)	Blue	A visual illustration of the level and the power consumption per pump during a selected time period. The Y-axis shows the range of values of the level which is configured in **SETPOINTS** > **Level**.
Nominal line	Gray	The nominal value for the pumps. scaling their graphical value.
Pump curves	Red, green, orange and purple.	When a pump reaches its nominal current (Gray line), the curve is on this line. All pumps are scaled towards this line even though the pumps run on individual nominal currents. In this way, the pumps that run on significant diverging currents are still visible on the graph. The actual current measurement is shown under **LEGEND**. The scaling in the graph depends on the rated current that is configured in **SETPOINTS** > **Current**.

LEGEND

LEGEND shows the numeric values of the graphs.

Parameter	Color	Description
Level	Blue	Level value, the actual level of the well.
Current P1	Green	The actual and nominal current value for each pump.
Current P2	Red	
Current P3	Orange	
Current P4	Purple	

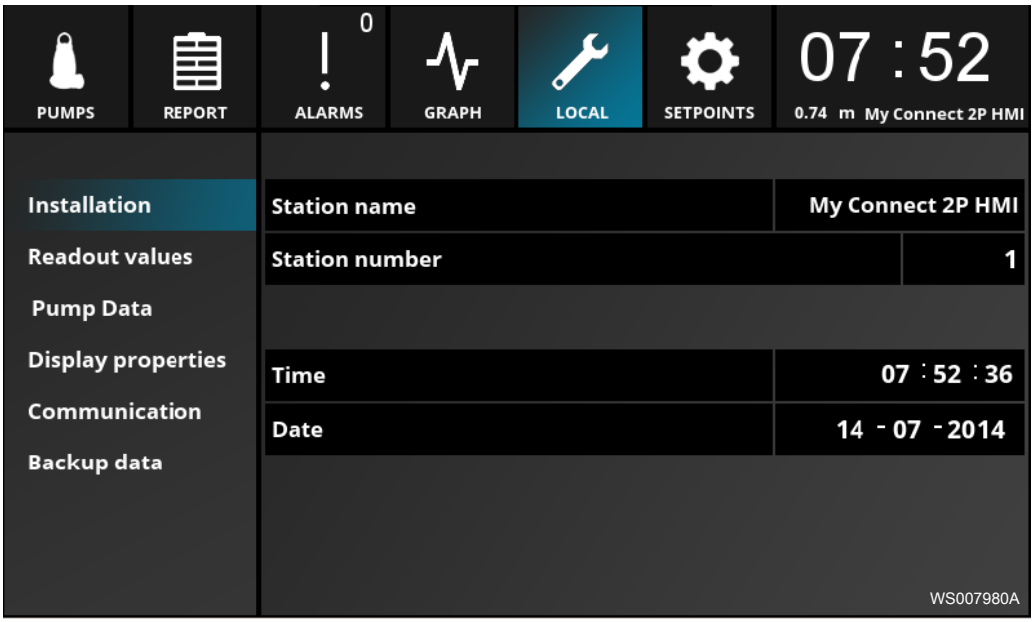
Time span buttons

Parameter	Description
3 HOURS	This button sets the time span for the graphs to three hours. This time span is the default.
DAY	This button sets the time span for the graphs to 24 hours. Select the desired date in the upper left corner.
WEEK	This button sets the time span for the graphs to one week.

LOCAL

Screen overview

LOCAL provides the setup options for the pump station.



- *Installation* (page 21): Provides configuration of general settings for the pump station.
- *Readout values* (page 21): Displays pump operation statistics.
- *Pump Data* (page 21): Provides configuration of the rated data for the connected pumps.
- *Display properties* (page 21): Provides system information of the HMI and display language settings.
- *Communication* (page 22): Provides configuration of network and remote control settings for the HMI.

Installation

Parameter	Default	Description
Station name	-	The station name is read from the pump controller and can be edited using the MyConnect Link application.
Station number	1–247	The station number, which is the ID number in the SCADA system. Tap to adjust.
Time	hh:mm:ss	Current time. Tap to adjust
Date	dd-mm-yyyy	Current date. Tap to adjust.

Readout values

Parameter	Description
P1 Runtime since last service (h)	The P1 runtime since last service (which is shown on the pump sub-screen). Tap to reset.
P1 Starts since last service	The P1 number of starts since last service (which is shown on the pump sub-screen). Tap to reset.
P2 Runtime since last service (h)	The P2 runtime since last service (which is shown on the pump sub-screen). Tap to reset.
P2 Starts since last service	The P2 number of starts since last service (shown in pump element). Tap to reset.
P3 Runtime since last service (h)	The P3 runtime since last service (which is shown on the pump sub-screen). Tap to reset.
P3 Starts since last service	The P3 number of starts since last service (shown in pump element). Tap to reset.
P4 Runtime since last service (h)	The P4 runtime since last service (which is shown on the pump sub-screen). Tap to reset.
P4 Starts since last service	The P4 number of starts since last service (shown in pump element). Tap to reset.

Pump Data

This screen shows data and information of the connected pumps that are adjustable. The data entered here is stored in the pump controller unit on selected registers and can be read by the SCADA system.

Parameter	Description
Pump type	The type of pump. Tap to edit.
Impeller	The type of impeller. Tap to edit.
KW	The kW for the pump. Tap to edit.
Nominal current	The nominal current for pump. Tap to edit.
Production year	The production year of the pump. Tap to edit.
Serial number	The serial number of the pump. Tap to edit.

Display properties

Parameter	Options	Default	Description
Language	Select a language.	**English**	Choose a language from the drop-down menu.
Brightness	-	-	Adjust by tapping + or -.
CPU load display	-	-	The actual CPU load of the display.

Parameter	Options	Default	Description
Free space display	-	-	The free space on the HMI memory.
Ext. Display settings	OFF/ON	OFF	Button to activate the HMI hardware built-in system settings menu.

Communication

Tap the arrows on the top and bottom to scroll down to the next page.

Page 1 Pump controller information.

Parameter	Option	Description
Connection status	-	The current status on the modem connection.
IP address SIM card	-	The IP address that is from the SIM card in modem.
Signal strength CSQ	0–99	The GSM or GPRS strength of connection.
Reset Modem	-	This button resets the modem in the pump controller.

Page 2 Pump controller settings.

Parameter	Option	Default	Description
Initialization string modem	-	-	The initiation string for modem. Tap to adjust.
APN name	-	-	The name of access point.
Connection timeout (sec)	0-9999 s	15	The connection timeout in seconds. Tap to adjust the value.
Baudrate	-	115200	The baud rate in the modem. Baud rate is the number of bits transferred per second. Tap to adjust the value.
TCP portnumber	-	1025	The TCP port number in the modem. The port number is used to establish TCP connection. Tap to adjust the port number. This number is only used for TCP connections.
Type of connection	None TP6000 NIROS RS232 RS485 no termination RS485 with termination	None	

Page 3 HMI settings.

Parameter	Example	Description
HMI IP address	192.168.1.10	The IP address of the HMI. Tap to edit. This address is used to establish a VNC connection to the HMI.

HMI ethernet mask	255.255.255.0	The HMI Ethernet mask. Tap to edit.
HMI ethernet gateway address	192.168.1.1	The HMI Ethernet gateway address. Tap to edit.
HMI ethernet port	8000	The HMI Ethernet port. This port is used to connect to the HMI. Tap to edit.
VNC server	-	The button turns on or off the VNC server. When turned off, the HMI cannot be accessed remotely.
Multiple VNC connections	-	The button turns on or off multiple VNC connections. When turned on, multiple connections to the HMI can be made.
VNC password	-	The password for remotely accessing the VNC server. Tap to enter the password.

Backup data

Backup data allows for the backup of historical data. Insert a USB memory, wait for the pop-up window to close and tap **Backup now** to save historical pump data to a CSV file.

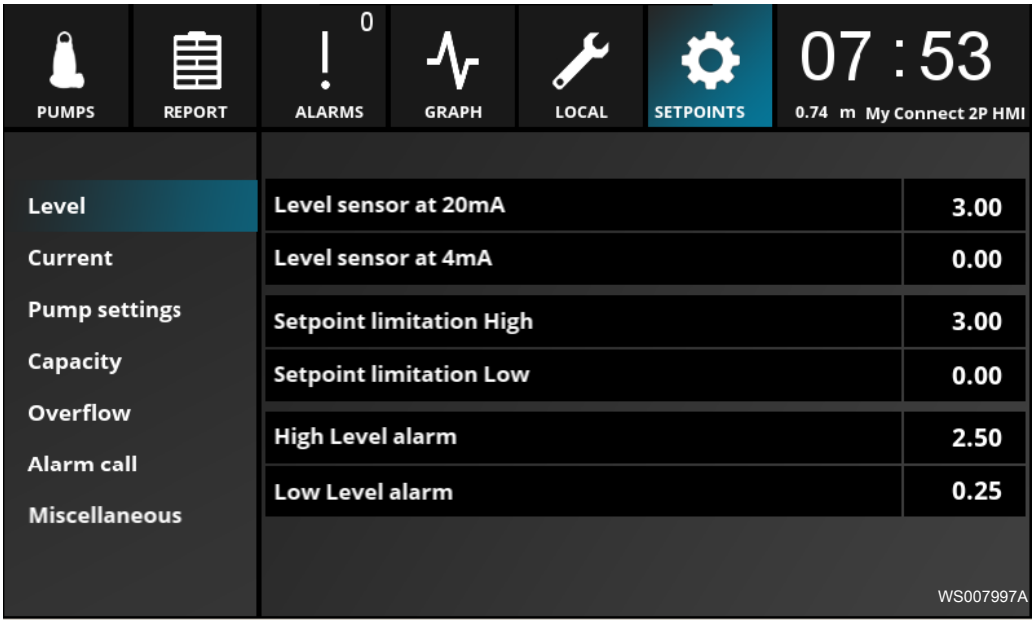
NOTICE:

Configuration settings for the pump station will not be backed up.

SETPOINTS

Screen overview

SETPOINTS provides the setup options for the connected pumps.



- *Level* (page 24): Provides configuration of the level settings for the connected sensors.
- *Current* (page 24): Provides configuration of the current settings that are shown on the main status screen.
- *Pump settings* (page 24): Provides configuration of the runtime settings for the connected pumps.
- *Capacity* (page 25): Provides configuration of the capacity for the connected pumps.

- *Overflow* (page 26): Provides configuration of the overflow settings.
- *Alarm call* (page 26): Provides configuration of the alarm report behavior.
- *Miscellaneous* (page 26): Provides configuration of the extended data logger interval.

Level

Parameter	Option	Default	Description
Level sensor at 20mA	-99 - 999	Depends on the type of sensor	The level height when the level sensor provides 20 mA. Tap to adjust.
Level sensor at 4mA	-99 - 999	Depends on the type of sensor	The level height when the level sensor provides 4 mA. Tap to adjust.
Setpoint limitation High	-99 - 999	Depends on the type of sensor	The setpoint limitation in relation to the maximum level. Tap to adjust.
Setpoint limitation Low	-99 - 999	Depends on the type of sensor	The setpoint limitation in relation to the minimum level. Tap to adjust.
High Level alarm	-	-	The level for high alarm. Tap to adjust.
Low Level alarm	-	-	The level for high alarm. Tap to adjust.

Current

The current settings only apply locally for the HMI unit. The pump controller unit can have different current settings.

Parameter	Description
P1 range current measurement (0 to X A)	The range for current in ampere.
P1 high current (A)	The high current alarm value in ampere.
P1 low current (A)	The low current alarm value in ampere.
P1 nominal current (A)	The nominal current value in ampere.

Tap the arrow on the bottom of the screen to see the corresponding settings for the other connected pumps.

Pump settings

Page 1 settings.

Parameter	Option	Default	Description
Number of pumps	-	Depends on the configuration.	Tap to select the number of pumps that are connected in this installation. The value decides the number of pumps that are shown on the HMI.
Number of simultaneously working pumps	-	Depends on the configuration.	Tap to select the number of simultaneously running pumps.
Start level 1	-	-	Tap to edit the start and stop levels for the connected pumps. This setting is also available for the pump **P2**, **P3** and **P4** if connected.
Stop level 1			

Tap the arrow on the bottom of the screen to see further settings.

Page 2 settings.

Parameter	Option	Default	Description
P1 alternation	**ON/OFF**	Depends on the configuration.	Tap to activate or deactivate the pump alternation. This setting is also available for the pump **P3** and **P4** if connected.
P2 alternation			
P1 maximum runtime (sec)	0–9999	0	Tap to adjust the maximum runtime for the pump in seconds. When the value is exceeded, the station sends an alarm. This setting is also available for the pump **P2**, **P3** and **P4** if connected.
P1 start delay (sec)	0–9999	0	Tap to adjust the delay in seconds. This setting is also available for the pump **P2**, **P3** and **P4** if connected.

Tap the arrow on the bottom of the screen to see further settings.

Page 3 settings.

Parameter	Option	Default	Description
Setpoint displacement offset	-	0.00	Tap to adjust the level setpoint displacement.
Setpoint displacement, start time (hh:mm)	hh:mm	00:00	Tap to adjust the start time for the setpoint displacement in hours and minutes.
Setpoint displacement, stop time (hh:mm)	hh:mm	00:00	Tap to adjust the stop time for the setpoint displacement in hours and minutes.
Periodic pumping by P1/P2/P3/P4	-	**OFF**	Tap to select the pump for periodic depth pumping.
Periodic pumping time (sec)	-	0	Tap to adjust the runtime (in seconds) for periodic depth pumping.
Periodic pumping (every XX starts)	-	0	Tap to adjust the number of starts between periodic depth pumping.

Capacity

Parameter	Option	Default	Description
Start level capacity measurement	-	-	Tap to enter the upper level.
Stop level capacity measurement	-	-	Tap to enter the lower level.
Volume capacity reading	-	-	Tap to enter the volume between the start and stop level for the capacity measurement.

Overflow

Parameter	Option	Default	Description
Overflow level 1	0.00 - 10.00 m	0.00	Tap to adjust the overflow level in meters.
Overflow capacity 1	0.0 - 9999.99 m³/h	0.0	Tap to adjust the overflow capacity in m³/h.
Tap the arrow on the bottom of the screen to set overflow level and capacity, 4–10.			
Overflow volume today	-	-	The overflow volume for current day in m³.
Overflow volume yesterday	-	-	The overflow volume for yesterday in m³.
24-hour counter actual value	-	-	The actual value of the 24-hour counter.

Alarm call

Alarm call provides the setup options for alarm call functionality.

Page 1 settings.

Parameter	Option	Default	Description
Call type (0=None, 1=CS, 2=Call, 3=SMS, 4=GSMS)	0–4	-	The type of communication the HMI uses to send alarm. Tap to select. • 0 - no alarm • 1 - PC (SCADA) • 2 - phone call • 3 - SMS message • 4 - GPRS
Phone number 1	-	-	The phone number for the connection. This setting is only relevant after selecting option 2 and 3 for "Call type". This phone number is the number that receives the information that is sent from the HMI. Tap to edit.
Time between calls number 1 (min)	0–9999	0	Time, in minutes, between alarm calls. Tap to edit.

Tap the arrow on the bottom of the screen to see more settings.

Page 2 settings.

Parameter	Option	Default	Description
Alarm delay high level (sec)	0–9999 (s)	0	The number of seconds before sending a high alarm. Tap to edit.
Alarm delay low level (sec)	0–9999 (s)	60	The number of seconds before sending a low alarm. Tap to edit.

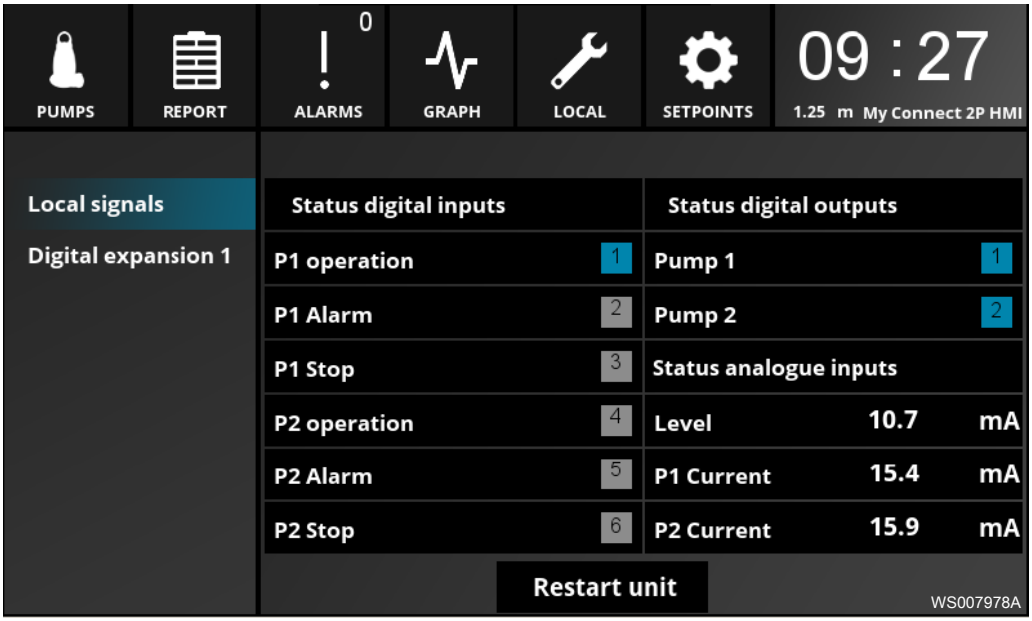
Miscellaneous

Parameter	Option	Default	Description
Trend resolution (sec)	30–3600 (s)	30	Tap to adjust the extended data logger logging interval.

Time

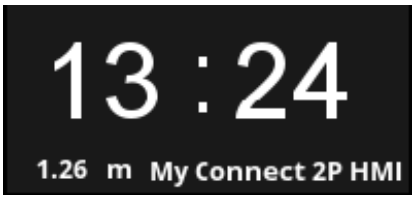
Screen overview

Time shows the status of the I/O signals of the connected pump controller.



Time menu button

The **Time** menu button displays the time, the actual well level and the station name.



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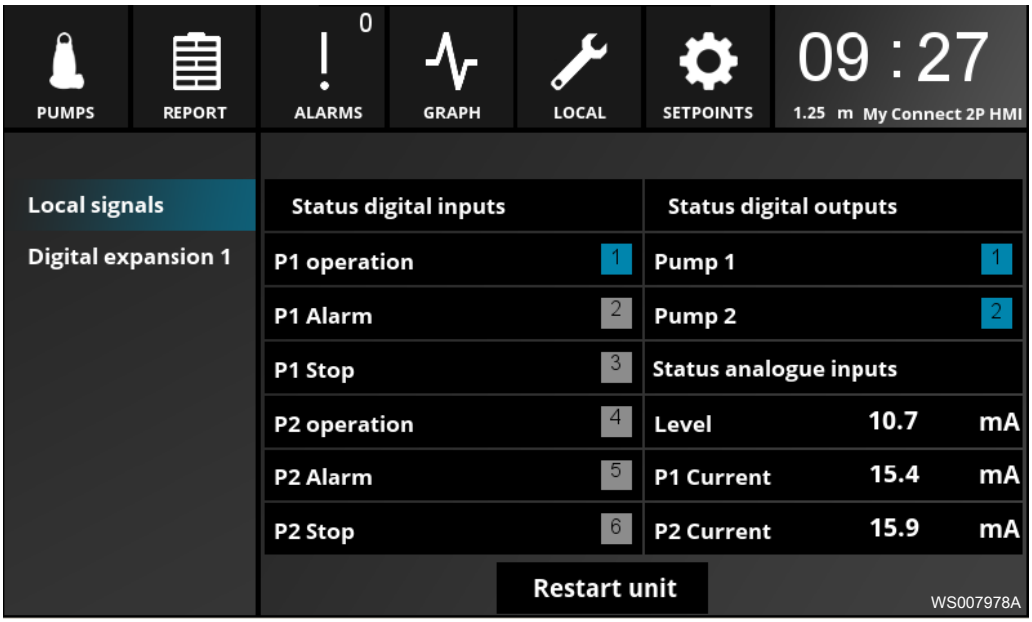
The time is configured in **LOCAL** > **Installation**. The station name is configured using the MyConnect Link application.

Local signals

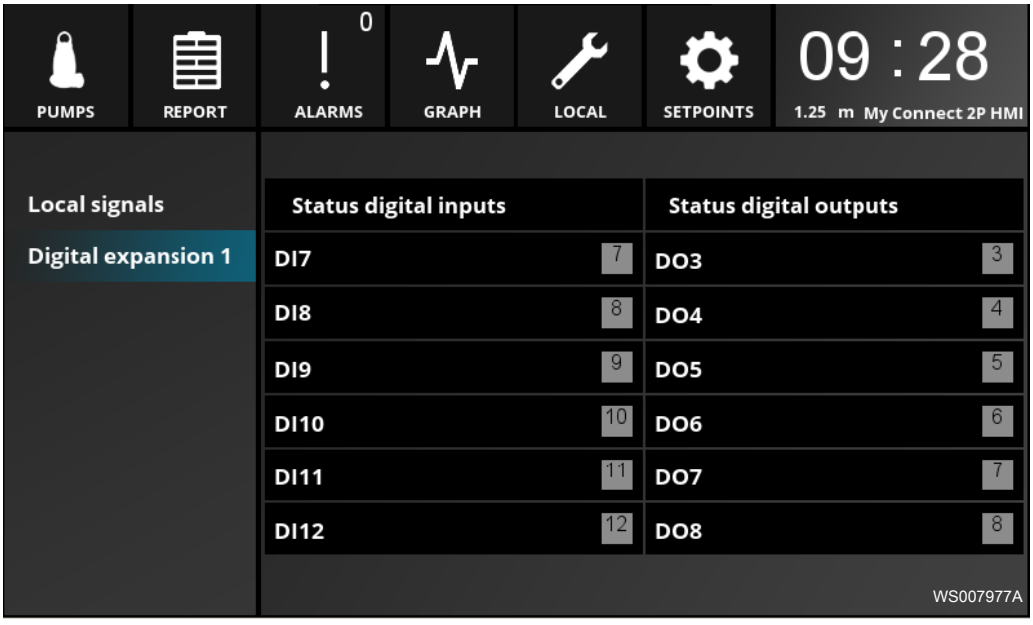
Local signals shows the status of the built-in I/O signals of the connected pump controller.



Parameter	Description
Status digital inputs	The status of the digital input or output signals for the connected pump controller. The blue color indicates that it is activated, gray color indicates that it is inactive.
Status digital outputs	
Status analogue inputs	The status of the analog inputs signals for the connected pump controller.
Restart unit	Restarts the pump controller.

Digital expansion 1

Digital expansion 1 shows the status of the I/O signals of existing expansion module that is connected to the pump controller.



Menu Item	Description
Status digital inputs	The status of the digital input or output signals from the existing expansion modules for the connected pump controller. The blue color indicates that it is activated, the gray color indicates that it is inactive.
Status digital outputs	

Troubleshooting

Precautions

Before starting work, make sure that the safety instructions in the chapter *Introduction and Safety* have been read and understood.

DANGER: Electrical Hazard

Troubleshooting a live control panel exposes personnel to hazardous voltages. Electrical troubleshooting must be done by a qualified electrician.

DANGER: Electrical Hazard

Before starting work on the unit, make sure that the unit and the control panel are isolated from the power supply and cannot be energized. This applies to the control circuit as well.

The HMI does not turn on within 5 seconds

Cause	Remedy
The fuse is blown from incorrect polarity of the DC power.	Replace the fuse and reconnect the wiring correctly.
The fuse is blown from incorrect power supply voltage.	Check that the power supply provides the correct voltage range, 24 ± 20% VDC. The peak starting current up to 2 A is allowed.

The HMI freezes

Cause	Remedy
Runtime error in the HMI software.	Tap the reset button behind the rubber hatch on the back of the HMI unit.

Text does not appear correctly

Cause	Remedy
Use of characters that are not allowed.	Try alternate spellings of the I/O signal or station name. Change spellings using the MyConnect Link software. See the MyConnect Installation, Operation and Maintenance manual, publ no 884758.

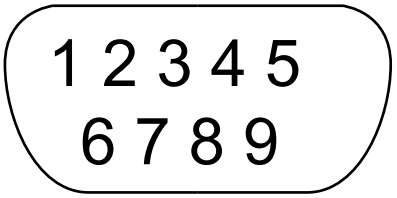
Technical Reference

Technical data

Power supply	24 VDC ±20%
Power consumption	400 mA @ 24 V
Processor	32 bit RISC CPU 600 MHz
Display	7″ TFT LED, resolution 800 x 480 pixels
Brightness	500 cd/m2
Contrast ratio	500:1
Colors	16.7 M
Backlight life time	> 30 000 h
Touch-panel type	4-wire resistive
Memory	256 MB, RAM 256 MB
External communication	CAN bus, CANopen and Modbus RTU
Interface	• SD card slot SDHC • 1 audio line out - 3.5 mm jack • 1 USB host USB 2.0 • 1 USB client USB 2.0 • 1 Ethernet port 10/100 BASE-T • COM1 (RS232/RS485 2 W), • COM3(RS232/RS485 2 W), supports MPI 187.5 K
Enclosure	IP66 front panel (O-ring seal), NEMA 4
Cabinet material	Aluminum
Operating conditions	-20 - 50 °C (-4 - 122 °F)
Storage temperature	-20 - 70 °C (-4 - 158 °F)
Operation humidity	10 % - 90 % RH, non-condensing
Weight	Approximately 0.9 kg.
Dimensions of panel cutout	192 x 138 mm (W x H)
Approvals	• EN 55022:2006 + A1:2007 • EN 61000-3-2:2006 + A2:2009 • EN 61000-3-3:2008 • EN 55024:1998 + A1:2001 + A2:2003 • Complies with FCC class A • UL508 type 1, NEMA 4

Communication ports

The following figure shows the COM1/COM3 RS232 port.



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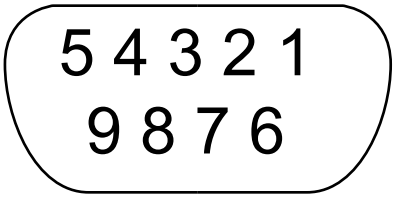
PIN number	Symbol	COM1 RS232	COM3 RS232
1	Not used	-	-
2	RxD	Received Data	-
3	TxD	Transmitted Data	-
4	Not used	-	-
5	GND	Signal ground	
6	Not used	-	-
7	RTS	Request to send	Transmitted Data
8	CTS	Clear to send	Received Data
9	Not used	-	-

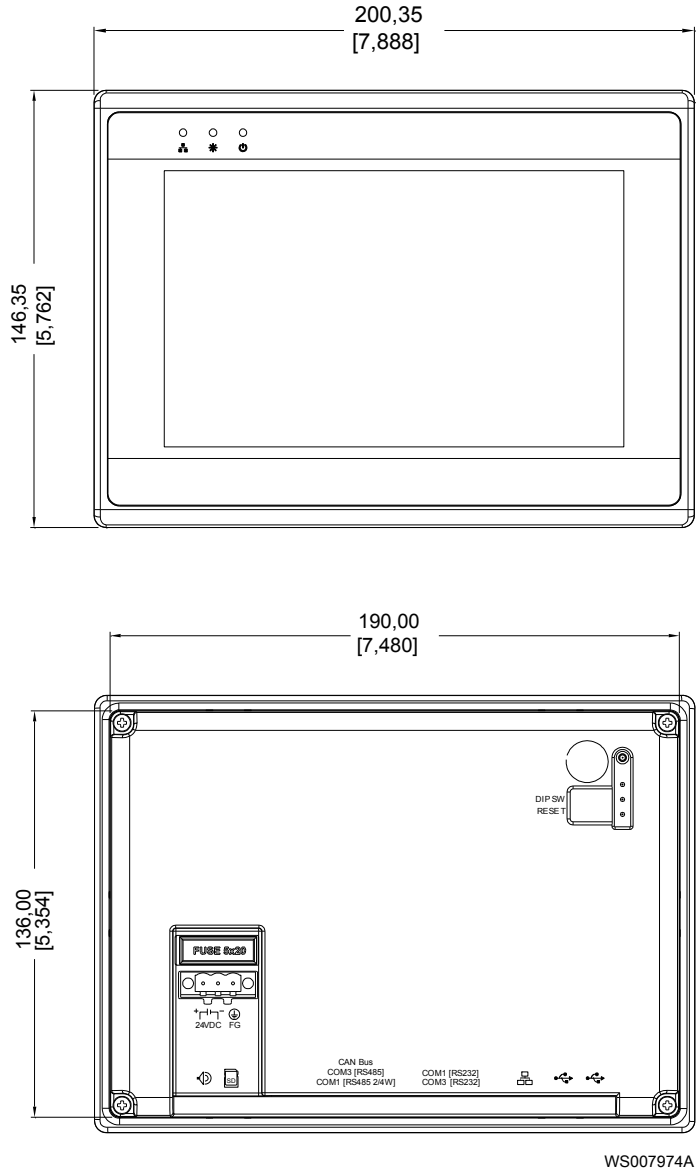
The following figure shows the COM1/COM3 RS485 CAN bus port.



WS008045A

PIN number	Symbol	COM1 RS485, 2 w	COM1 RS485, 4 w	COM3 RS485	CAN bus
1	RX-	Data-	RX-	-	-
2	RX+	Data+	RX+	-	-
3	TX-	-	TX-	-	-
4	TX+	-	TX+	-	-
5	GND	Signal ground			
6	Data-	-	-	Data-	-
7	CAN_L	-	-	-	CAN_L
8	CAN_H	-	-	-	CAN_H
9	Data+	-	-	Data+	-

Product dimensions



Order numbers

Order number	Part
829927	MyConnect, including cable.
829926	Cable kit for the pump controller to the HMI, RS485 cable, 2.5 m

Xylem |ˈzīləm|

1) The tissue in plants that brings water upward from the roots
2) A leading global water technology company

We're 12,500 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to xyleminc.com

Refer to www.xylemwatersolutions.com/contacts/ for contact details of your local sales and service representative.

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Visit our Web site for the latest version of this document and more information

The original instruction is in English. All non-English instructions are translations of the original instruction.

885463_1.1_en-US_2014-12_IOM.MyConnectHMI