



H2Pro Alarms Screen

PUMP 1	PUMP 2	PUMP 3	MISC	MISC
AUTO	AUTO	AUTO	HIGH DISCHARGE	PHASE MONITOR
VFD RUN	STOPPED	STOPPED	LOW DISCHARGE	PUMP TEST ON
START FAIL	START FAIL	START FAIL	LOW SUCTION	RTU/RMT SIG FAIL
OVER TEMP	OVER TEMP	OVER TEMP	X-DUCER FAIL	
FAULT	FAULT	FAULT		
VFD FAULT	VFD FAULT	VFD FAULT		

RESET HORN DATE 3/20/19 TIME WEDNESDAY 13:20:16

USEMCO Controller I/O History Logging Modify Config View Setup Modes & Reset Alarms Status

History Log Screen

OCCURRED	MESSAGE
12/12 04:11:19	PUMP 2 COMM FAULT
12/12 04:03:57	LOW SUCTION ALARM
09/12 09:22:38	HIGH DISCHARGE
09/12 08:51:47	HIGH DISCHARGE
09/12 08:43:14	HIGH DISCHARGE
09/12 08:23:53	HIGH DISCHARGE
09/12 08:23:52	HIGH LEVEL ALARM
09/12 08:03:09	PUMP 1 START FAIL

v Down ^ UP Clear History

< Back Alarm History

# H2Pro®

Customized touch screen pump control for booster applications

## Operational Efficiency and Monitoring

The **H2Pro Status Touch Screen** provides a birds-eye view of your operation, including which pumps are running, number of starts, run time, operating speed, HOA switch position, suction and discharge pressure.

## Intuitive User Interface

The new **Screen Select** bar at the bottom of each screen allows the operator to easily navigate from screen to screen.

The detailed **Alarms** screen displays indicators for pump status, pump alarms, system alarms, and event status. A conveniently located "reset" button allows operators to evaluate the fault and reinstate pumps if appropriate.

## Help Configuration Screen

Touch the 'Discharge, Suction, Flow-meter' buttons and enter the transmitter/meter rating.

Touch the Display 'psi' or 'feet' button to select the discharge units in feet or psi.

Select the System Pump Alternation. Enter the 'hour' for alternation if '24hrs' is selected.

Touch the 'Set Clock Calendar' button to make calendar and time changes.

Select 'enable' / 'disable' to control pumps running when a low-discharge pressure is detected.

< Back

Configure Controller

## Controller Status Screen

The Controller Status Screen displays the following information:

- Digital Inputs:** A list of 28 digital inputs (X0 to X27) with status indicators.
- Digital Outputs:** A list of 28 digital outputs (Y0 to Y27) with status indicators.
- Analog Input - Registers:** Shows values for A-In Ch-0 (+2375) and A-In Ch-1 (+2043). Includes a note: "(J) = low or no analog sig. 4mA = 0, 12mA = 2048, 20mA = 4096".
- Analog Output - Registers:** Shows values for A-Out Ch-0 (0), A-Out Ch-1 (0), and A-Out Ch-2 (+19000). Includes a note: "(Echo A-In Ch-1) 0 = 4mA, 16K = 12MA, 20K = 20MA".
- Controller Status:** A row of indicators for Run, Battery, Err-Pare, Err-Syntax, Err-Ladder, and Watchdog.
- Navigation Buttons:** USEMCO, Controller I/O, History Logging, Modify Config, View Setup, Modes & Reset, Alarms, Status.

## Test Screen

The Test Screen includes the following elements:

- Simulation Controls:** Simulate ON and Simulate OFF buttons, with an Auto-OFF timer set to 143/300.
- Pressure Readings:** TEST PSI and Actual PSI, both showing 58.0 PSI. Includes Less, More, X-Less, and X-More buttons.
- ALARMS Section:** Set Points table with ON/OFF columns.
 

Set Point	ON	OFF
High	80.0	65.0
Lead	50.0	62.0
Lag	45.0	60.0
Low	20.0	
- Navigation Buttons:** HELP, CONFIG, TIMERS, SETPTS, TEST, EXIT.

## Set Points Screen

The Set Points Screen allows adjustment of the following values:

- LEAD Start Pressure:** 50.0
- LEAD Stop Pressure:** 65.0
- LAG Start Pressure:** 45.0
- LAG Stop Pressure:** 62.0

Each value is adjustable using 'v Less' and '^ More' buttons. A Maximum PSI of 100.0 is indicated on the right. Navigation buttons include < Back, HELP, CONFIG, TIMERS, SETPTS, TEST, EXIT, and Next >.

# H2Pro®

## Standard Features:

- User enabled clock/calendar for time based control
- Alarm relays for alarm strobe or horn
- Dry telemetry contacts for low suction, no flow, high discharge, pump fail, and common alarm
- Password protected configuration screens
- High and low level alarms and timers
- Pump on/off and start/fail timers
- Minimum run timers
- Low suction pressure alarm and timer

## Factory/Field Configuration:

- Suction transducer (4-20 mA)
- Flow meter (4-20 mA or pulse input)
- Remote transducer
- Suction pressure switch or no flow switch
- SCADA compatible
- Scaling for flow meter and pressure transducers
- Selectable pump alternating sequence
  - Every start
  - Every 24 hours
  - Manual
- Jockey pump configuration
- High capacity pump configuration

## Touch Screen Display:

- Suction pressure
- Discharge pressure
- Pump run times
- Flow
- Time delays
- Alarms
- Set points

## Seamlessly integrates with USEMCO Web Station



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