

## HYDROMASTER

### DIGITAL HYDROMASTER DH2A-900-1 2 PUMP CONTROL WITH ALTERNATION



## FEATURES

4.3" COLOR TOUCH DISPLAY	I/O LOGIC CONTROLLER
ADD AIR, LEAD-LAG	ALTERNATOR
ALTERNATOR OVERRIDE	HIGH AND LOW ALARM
ALARM HISTORY LIST	PRESSURE TRANSDUCER
LIGHTNING PROTECTION	RANGE 0-100PSI
HAND-OFF-AUTO SWITCHES	NEMA 12 ENCLOSURE
R-B PROBE ASSY FOR FRONT MOUNTING TO HYDRO TANK	

## OPTIONS

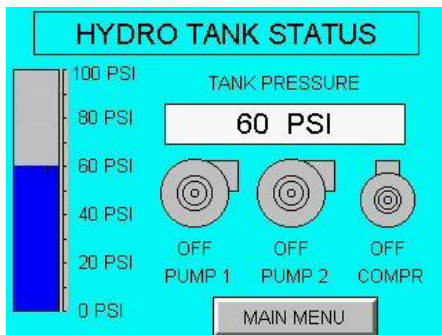
3, 4 PUMP CONTROLLER WITH ALTERNATION  
MONITOR AND CONTROL 2 TANK LEVELS  
RADIO TELEMTRY, SCADA COMPATIBLE  
COMMUNICATION PORTS, ETHERNET  
INTERNAL DIALER, PRINTER OUTPUT  
CALL FOR OPTIONAL PRICING

## MASTER LEVEL CONTROLS CO.

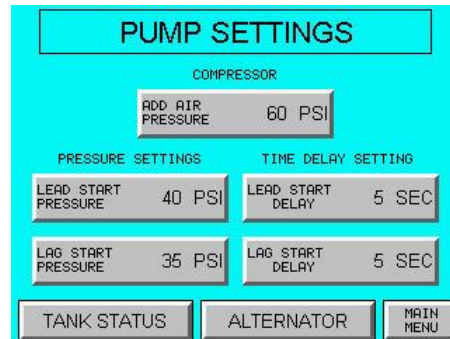
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Phone 800-MLC-8020 651-426-9085 Fax 651-426-9354 E-mail info@masterlevel.com

## DIGITAL HYDROMASTER

The Digital Hydromaster is a controller which senses level, pressure and maintains a air balance of a hydropneumatic tank and controls for one or more pumps. The Digital Hydromaster consists of a OCS Operator Control Display, with a Programmable Logic Controller with digital and analog I/O, and a Pressure Transducer. The Hydromaster OCS digital display panel has a 4.3 inch color touch display with 65K colors. The Operator selects pre-programmed screens and inputs pressure start and add-air setpoints, time delays, alternation features, and alarm conditions. The OCS Display Panel has a 480 x 272 pixel color touch display. One of the menu screens is the HYDRO TANK STATUS. The status screen displays pressure, plus a bar graph, pump and compressor status. Other menu screens allow the operator to select pressure setpoints or time delays.



Hydro Tank Status



Pump Settings

### DH2A HYDROMASTER Main Menu Screens

HYDRO TANK STATUS, PRESSURE, PUMP AND COMPRESSOR STATUS  
PUMP SETPOINTS

LEAD AND LAG PUMP START PRESSURE SETPOINTS (1 PSI)

LEAD AND LAG PUMP START TIME DELAY SETTING (0-90 seconds)

PUMP ALTERNATOR SETUP

AUTOMATIC ALTERNATION, PUMP 1 - PUMP 2, PUMP 2 - PUMP 1

PUMP FAIL DELAY (Fail off, 5-300 seconds)

ADD AIR SETPOINT

ADD AIR PRESSURE SETPOINT (1 PSI)

COMPRESSOR FAIL DELAY (Fail off, 5-90 seconds)

ALARM SETTINGS

HIGH AND LOW ALARM SETPOINTS (1 PSI)

HIGH AND LOW ALARM TIME DELAY SETTINGS (0-300 seconds)

ALARM HISTORY LIST Time, date, type of fault, Tank High Pressure, Low Pressure, Pump 1

Fail, Pump 2 Fail, Compressor Fail

PUMP HISTORY (Run Time and Pump Start Counter for each pump)

TRANSDUCER INPUT (Zero and Span)

The Programmable Logic Controller has 4 analog inputs, 2 analog outputs, 12 digital inputs and 12 outputs. The analog 4-20ma input is from a Pressure Transducer with a range of 0-100 PSIG. Solid State Probe Modules detect pump stop and air limit levels from the R-B Probe Assembly. Pump and compressor hand-off-auto control switches are provided. Pump and compressor relays are provided and are rated 10 amp @ 120/230v. The R-B Probe assembly is provided for front mounting to the hydropneumatic tank.

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# MASTER LEVEL CONTROLS

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## DIGITAL HYDROMASTER

JUN 2019

MODEL NO.	DESCRIPTION	VOLTAGE	PRICE
DH2A-900-1	2 Pump Controller, Add-Air, 4.3" Color Level Display, Alternator, High and Low Alarm, Range 0-100PSI. Programmable Logic Controller, 12 DI, 12DO, 4 AI, 2AO, HOA Switches, Output Relays, Nema 12 Enclosure, 16" x 16" x 6". 1 - R-B Probe Assembly	120V	
DIALER OPTION	16 Digital Outputs, with 3 Fail Relays and Indicators.		
DH3A-901-1	3 Pump Controller, Add-Air, 4.3" Color Level Display, Alternator, High and Low Alarm, Range 0-100PSI. Programmable Logic Controller, 12 DI, 28 DO, 4 AI, 2 AO, HOA Switches, Output Relays, Nema 12 Enclosure, 20" x 20" x 6". 1 - R-B Probe Assembly	120V	
DIALER OPTION	4 Fail Relays with Indicators.		
DH4A-902-1	4 Pump Controller, Add-Air, 4.3" Color Level Display, Alternator, High and Low Alarm, Range 0-100PSI. Programmable Logic Controller, 12 DI, 28 DO, 4 AI, 2 AO, HOA Switches, Output Relays, Nema 12 Enclosure, 24" x 24" x 6". 1 - R-B Probe Assembly	120V	
DIALER OPTION	5 Fail Relays with Indicators.		

### TRANSDUCER OPTIONS

PT-425	Pressure Transducer, 0-100psi, 4-20ma Output +/- .25% Accuracy, Built Inside of Pump Controller.
PT-425N4	Pressure Transducer, 0-50psi/100psi, 4-20ma Output +/- .25% Accuracy, Nema 4 Enclosure. (Mount on Tank)
PT-IGP10	Pressure Transducer, 0-300psi, 4-20ma Output +/- .07% Accuracy, Built Inside of Pump Controller.

### DIGITAL HYDROMASTER ACCESSORIES

CB-LP	Control Breaker and Lightning Protection
HL-REL	Alarm Output Relays with Silencer Switch
SBV	Shutoff and Bleed Valves
SNUB	Pressure Snubber
HS-100	Heater and Stat, 100 Watt with Adjustable Stat
VXH-RED	Alarm Light Fixture with Back Box, Red Globe and Guard
DL-400	Dialer 4 Inputs, Program 4 Phone Numbers, Battery Backup
DL-800	Dialer 8 Inputs, Program 8 Phone Numbers, Battery Backup

*All Prices Subject To Change Without Notice*

*F.O.B. Rogers, MN*

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