

NE250 DUPLEX PUMP VFD CONTROLLER



NE250 Features In Brief

- Duplex pump VFD control
- Duplex alternator
- Pump Sequencing

Product Specifications:

Power Supply Input: 120VAC @ 80VA

Power Supply Output: 24 VDC @ 250mA w/120VAC input.

Analog Input: 4-20mA (250 ohm load), 0-5/1-5VDC (configurable)

Analog Output: (2) 4-20mA (500 ohm load) speed commands

Calibration Adj: scalable via display screen or Auto-scalable with transducer connected

Alarm Horn Outputs: Dry contact for 120VAC or 24VDC supply voltage

Dimensions: 8 1/2 " high x 7 1/2 " wide x 3 1/2 " deep

Environmental: Operating temperature 32 to 122 F

Humidity: 20-90% non-condensing

◆ The **NE250** duplex pump VFD controller is economical, space-saving, and easily integrated into new pump stations or retrofitted into existing pump station control systems. The **NE250** is ideal for any pump system application where you want to effectively and efficiently control the level of the process. Whether you are working with water, or wastewater the controller can be configured to fit your control system requirement.

◆ The **NE250** has an integral programmable logic controller (PLC) and human machine interface (HMI) unit in one. This combination gives you a user friendly touchscreen interface along with a customizable program that can be tailored to match your control system needs.

◆ The **NE250** provides full-range, differential control of two pumps plus High and Low (Abnormal) level alarm in response to a 0-10 volt DC or 4-20mADC level-proportional signal as provided by an external sensor. The controller works with a wide range of available level sensors such as a

submersible level transducer, ultrasonic level transmitter or any other sensor that produces a linear, level-proportional analog output.

◆ The **NE250** comes complete with a built-in duplex alternator allowing pump sequencing in fixed or alternating modes. Sequence selections allow equalization of pump usage or the ability to take a pump out of service. Pump sequence selection and level control are viewable and adjustable on the main display screen. Time based alternation is also provided as an option.

◆ The **NE250** controller has built-in relay contact closure outputs rated at 5 amps @ 120VAC. The outputs are used to activate pump starting equipment and external alarm devices.

◆ The **NE250** controller operates on 120VAC power and provides 24 VDC and 5VDC power for a level transducer. All wiring terminations are located on the back of the controller with removable compression-type screw terminal blocks capable of securing two 14 AWG wires.

The NE250 has been designed and engineered as an alternative for the LC150 pump controller.

NE CONTROLS		NE250 DUPLEX PUMP VFD CONTROLLER												WWW.NECONTROLS.COM (315) 626-2480											
FUSE 2 AMP SLO-BLO		FEATURES:				CONTROL INPUTS RETURN TO INPUT COM				TRANSDUCER CONNECTIONS (500 OHM LIMIT PER ANALOG OUTPUT)				SERIAL NUMBER											
120VAC 50/60HZ 80VA		WET WELL LEVEL CONTROL PUMP ALTERNATION LEAD/LAG PUMP CONTROL HIGH/LOW LEVEL ALARM OUTPUTS VFD SPEED CONTROL ADJUSTABLE SETPOINTS				HIGH LEVEL FLOAT LOW LEVEL FLOAT HORN SILENCE INPUT COMMON +24VDC				ANALOG OUT 1 (+) ANALOG OUT 1 COM SIGNAL IN 0-5V (WHT) SIGNAL IN 4-20mA EXCITATION 0-5V (RED) COMMON 0-5V (BLK) +24VDC FOR 4-20mA ANALOG OUT 2 (+) ANALOG OUT 2 COM GROUND															
L	N	PUMP1 START	PUMP2 START	ALARM OUTPUTS	AIR BLAST -OR- HORN OUTPUT	26	27	28	33	33	34	35	38	39	40	41	42	43	44	G					
1	2	6	7	8	9	12	13	14	15	16	26	27	28	33	33	34	35	38	39	40	41	42	43	44	G