

DIGI GAGE



Rising to a whole
new level of field
proven pump
control, reliability,
flexibility and ease
of operation.



EG
Controls
JACKSONVILLE, FLORIDA

EG CONTROLS...

an Industry Leader

for Over a Quarter Century

EG Controls specializes in the manufacture of pump controls for the water and wastewater industries. Dedication to product quality, innovative technology, competitive pricing and total responsiveness to customer needs, have made EG Controls a nationwide industry leader for over 30 years.

EG Controls' products withstand the test of time, saving money by improving efficiency and decreasing downtime. Designed for easy use in the field, EG Controls' products deliver absolute reliability combined with strong price value.

Based in Jacksonville, Florida, EG Controls is a UL508 manufacturing facility staffed by experts in the design and manufacture of pump controls. A national sales network of 25 representative operates throughout North America.



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The DIGI GAGE Control System



Model 2300 is designed to handle up to three pumps and should be used in duplex or triplex stations.



Model 2400 is designed for use with triplex or quadruplex stations and can handle up to four pumps.



Model 2600 is the most versatile and can handle up to six pumps.



The Vari-Gage 3300 Model is designed to handle up to three variable speed pumps.

The Digi-Gage is a compact, programmable level indicator controller designed for water and wastewater applications. It will automatically start, stop and alternate up to six pumps to precisely monitor and maintain fluid levels.

Most importantly, the Digi-Gage is one of the most reliable controllers on the market today. It is 100% digital so it eliminates all of the conventional sources of drift and error. Four different models are available to handle a variety of pumping station sizes and needs.

All Digi-Gage models can be configured for Pump Up (freshwater) or Pump Down (wastewater) applications.

Accepts pressure, voltage or current input...

With a proven track record, the Digi-Gage can be used in almost any application. Not only will it accept bubbler pressure input but it can also accept 4-20mA and 0-10 volt inputs from any type of level transmitter. After being "read" by the Digi-Gage, all inputs are converted into feet or psi by the internal microprocessor and then displayed in bright 1/2" LED's.

Provides a gateway for implementing a SCADA system...

The Digi-Gage unit can serve as an RTU interface and can actually be the direct connection to a computer or provide data to a PLC which will then communicate with a remote monitoring computer system. Communications capability is standard for all Digi-Gage and Vari-Gage models. Each unit comes with a built-in RS 232 Modbus card. Combine the Digi-Gage with EG Controls' Scada Express software for a complete SCADA system with "off the shelf" pricing and convenience.

Output meets all industry standards...

Along with standard digital output, the Digi-Gage also has a user scalable 4-20mA output that can be used to control recorders, chemical pacing equipment and more. The sister product, the Vari-Gage, has been designed to be used with up to three variable frequency drives. The Vari-Gage has three 4-20mA analog outputs. Automatic purge control is standard with models 2300 and 2400.

Manual simulation (SIM) can be used for testing...

With the SIM mode, an operator can simulate changes in either liquid level or pressure. Upon entering the SIM mode, the Digi-Gage will first store the value of the actual level being monitored. Alarms and pumps will operate based on simulated value changes (such as level or pressure) accomplished by the operator pressing the UP and DOWN arrow keys. If no key is pressed, the system will revert to automatic operation after three minutes.

Program the Digi-Gage in four easy steps...

First press PROG to select programming mode. Second, press the STEP key to select the function to be reviewed or changed. A discrete LED on the controller's right side indicates each function as it is selected and the display indicates the current value being stored. Third, use the UP and DOWN arrow keys to change the value settings. Finally, press AUTO to save settings and put system in automatic mode. The entire programming sequence can be completed in minutes. Changes and deletions can also be made by touching a few buttons.

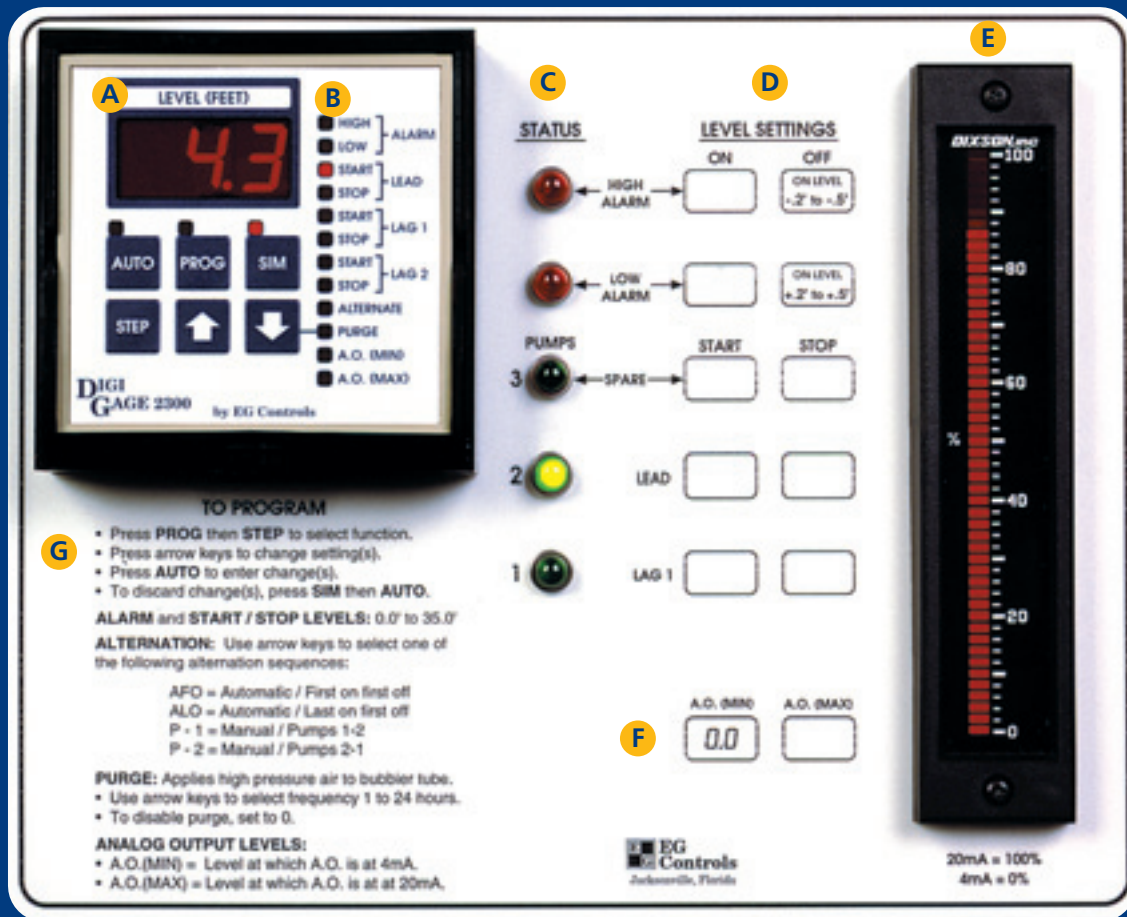
**Easy to program and calibrate—
no need to call for field service**

Reliable and self maintaining...

In case of power failure, programming is also saved in special NOVRAM "100 year" memory without the use of batteries. A self diagnosing memory test is automatically run each time the unit is turned on.

THE DIGI-GAGE CONTROL SYSTEM

A typical Model 2300 is pictured below:



A The Digital Controller is located here. It serves as the lift station indicator/controller and includes a standard communications board.

B Dual purpose function indicator LED's are used for programming and status indication.

C These LED's serve as the Output Status Indicators and are designed to be daylight visible.

D Level Settings section includes replaceable labels where the setting can be recorded to assist operators in tracking or programming level changes.

E The bargraph is a useful option for viewing wet well levels quickly and easily. It is field scalable and can be programmed to indicate any operational wet well range from 0-3 feet, 0-35 or anywhere in between.

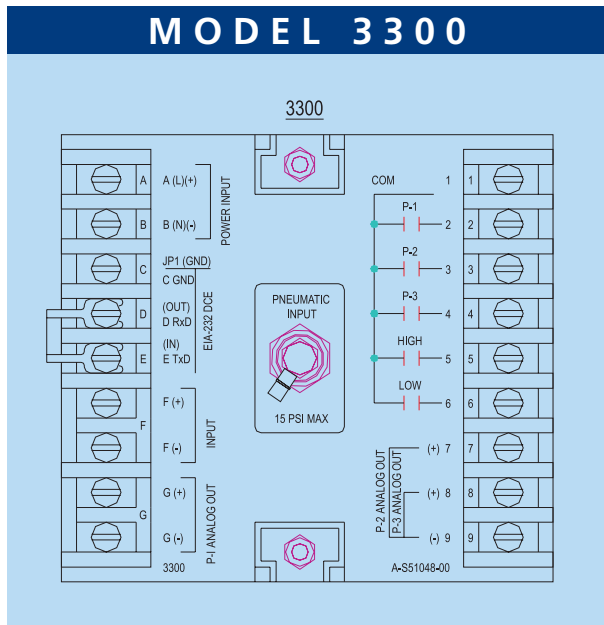
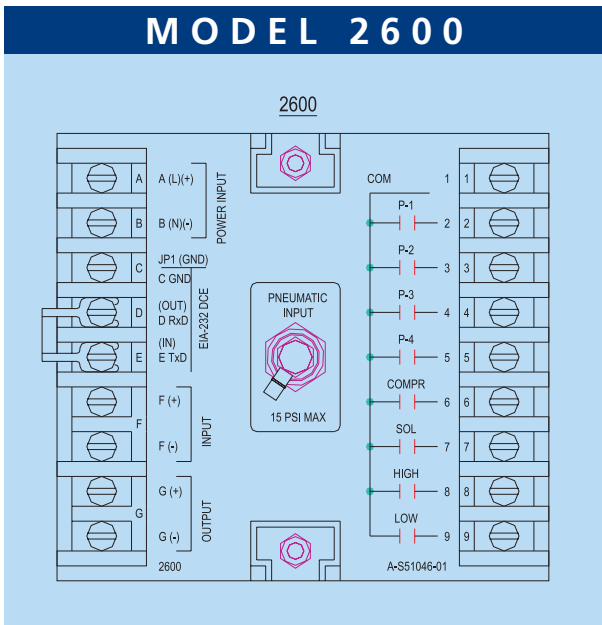
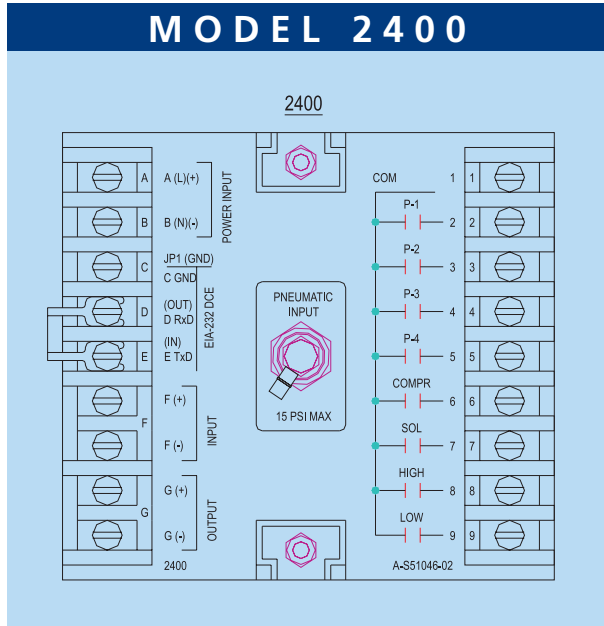
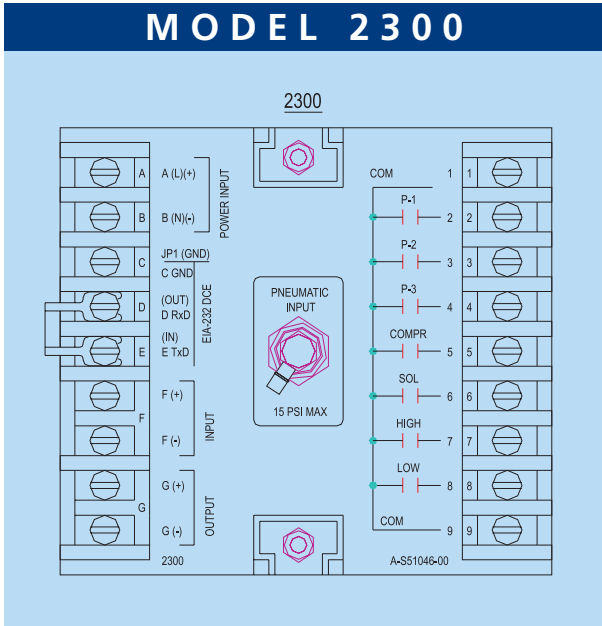
F Analog Output Level Settings are needed if the bargraph option is purchased. These settings can be recorded in this area.

G Programming Instructions are described on the front panel so that operators can make changes quickly and easily.

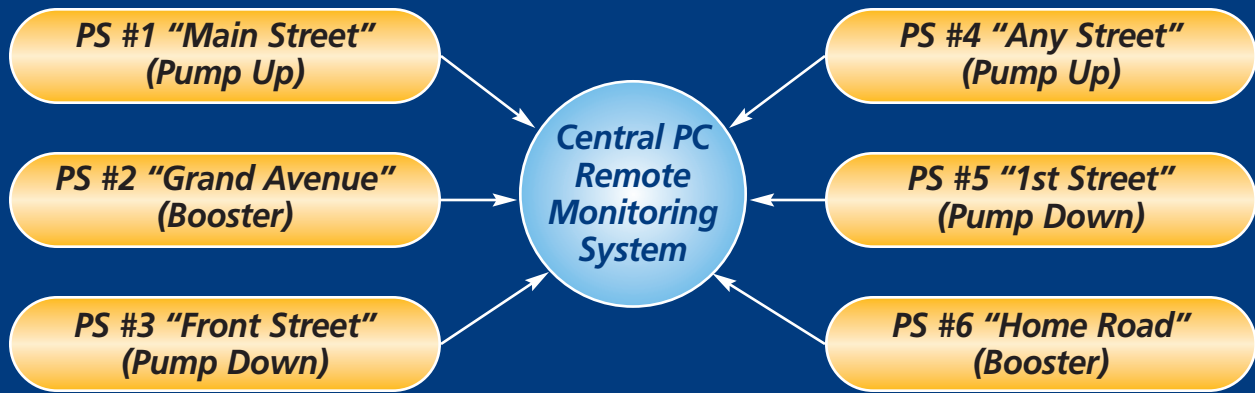


EG Controls continues to lead the market in new products designed with the operator's needs in mind. The Digi-Gage is built with a draw out case to make installation and replacement easy – no wires or pneumatic connections to disconnect.

WIRING DIAGRAMS



The Digi-Gage in Action



Digi-Gage controllers allow you to combine Pump Up, Pump Down and Booster systems under one TOTAL system—reducing the overall costs and increasing efficiency throughout your system. Monitoring and management can be done with one centralized monitoring system requiring little or no intervention from the manufacturer or service provider.

RELIABLE • FLEXIBLE • EASY TO USE

The **DIGI**
GAGE
Control System
by



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Digi-Gage Specifications

These specifications apply to all models of the Digi-Gage (2300,2400 and 2600) and the Vari-Gage except where individual differences are noted.

Input Power:	24VAC
Input Options:	All jumper selectable 4-20mA (50 ohm load) 0-10 VDC Air pressure, 0-15 psi (0-35 feet) Air pressure, 0-30 psi (0-70 feet) Dry contact (one)
Dimensions:	3.78" x 3.78" x 7.32"
Depth Behind Panel:	6.4" MAX
Panel Cutout:	3.6" x 3.6"
Discrete Outputs:	SPST (1 amp, 120VAC)
Model 2300:	3 pumps, 2 alarms (high and low), 2 bubbler controls (isolate and purge)
Model 2400:	4 pumps, 2 alarms (high and low), 2 bubbler controls (isolate and purge)
Model 2600:	6 pumps, 2 alarms (high and low)
Analog Output Current:	4-20mA (600 ohm load max)
Linearity:	+/- .005% (analog output) +/- 0.1% (pneumatic input)
Environmental Temp:	-10 degree to +70 deg C
Display Range Options:	All keypad selectable 0-999, 0-99.9, 0-9.99, 0-.999

For more information, contact your local representative:



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