

The GrowcoLoad GL-E Series Batch Controller is typically used together with flow meters with pulses output and control valves or PLC for loading of products used in trucks loading terminals, barge loading terminals, rail cars, or related processing installations.



Typical outlook of our GrowcoLoad



Our Batch Controllers were installed at such petroleum trucks terminals

➤ FEATURES:

- Stable and reliable operations.
- Intelligent microprocessor.
- Controlled automatically or manually.
- Installed near flow meters & loading arms.
- Overfill and Grounding protection.
- Pulse / Analogue flow signal.
- Temperature compensation.
- Flow meters factors compensation.
- Programmable valve control sequence.
- RS 485 interface communication / Modbus protocol
- Magnetic control keypad totally separated from instrument body.
- Classification : Ex d IIB T6
- Enclosure : IP 65
- Standard Voltage : DC24V ; optional for AC220V.
- Clear Display in Dot matrix VFD (Vacuum Fluorescence Display or LCD Type).
- 8 control outputs for use as pump control, valve control, etc.
- Password protected security levels.

➤ **TYPICAL SPECIFICATIONS**

Power	Power supply: D.C.20~26V, 9W
Input	Pulse flow: 0~3kHz Temperature compensation: Pt100, -50°C ~ 120°C Current signal: 4~20mA 8 switch response points: 1 overfill switches,etc(if current or voltage type is used, it must be indicated clearly at the time of order) 1 grounding switches
Output	8 on-off control signals: 24V D.C. 0.5A / 1A Holding time of control signal: 1~9998 sec. or infinity Logic control: 8 electromagnetic winding, on-off mode and sequence can be configured
Display	Vacuum Fluorescence Display (VFD, 128×64), displaying in English or LCD Type
Pushbutton Structure	16 Hall Effect pushbuttons, the buttons and housing are separated completely
Communication	Dual Communication Ports: RS-485, surge protected Baudrate: 1200、2400、4800、9600、14400、19200 Max. Distance: 1.2km
Operating Conditions	Ambient Temperature: -40°C ~ +65°C Relative Humidity: no more than 95%
Classification	Ex d IIB T6
Enclosure	IP 65
Dimensions(mm)	L=350×W=260×H=138
Weight	14kg

➤ **MULTIPLE GROWCOLOAD GL-E SERIES ARRANGEMENT**

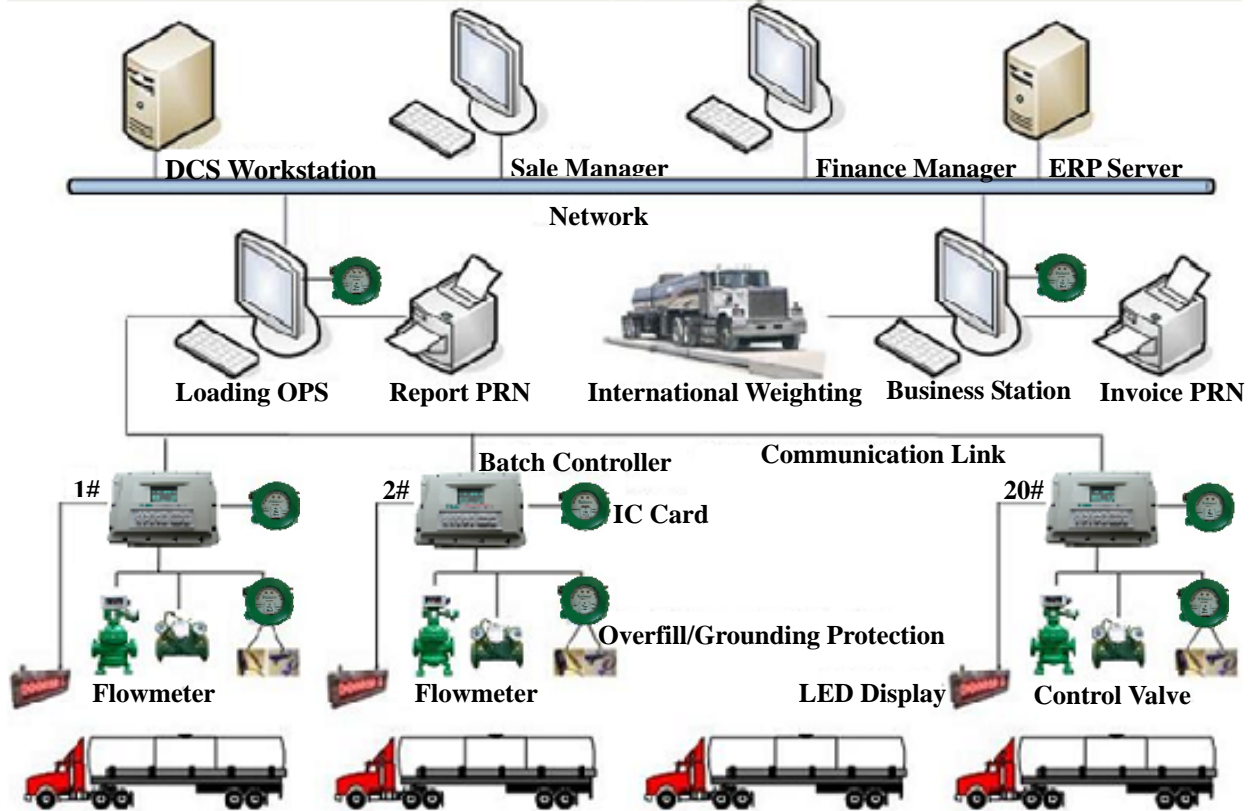
The GrowcoLoad GL-E series batch controllers can be easily communicated with Terminal Automation Systems (TAS) with such typical arrangements as shown below :



Such serial communication drivers are transformed into standard MODBUS protocol to connect the main computer (TAS) in the control room. The recommended total quantity of 15 units of GrowcoLoad GL-E series batch controllers can be connected with twisted-pair communication lines.

The TAS computer collects statistics from each GrowcoLoad GL-E series batch controller and it displays the loading information on the colorful display, makes and prints the related report forms, outputs the commands and manages the loading process.

Typical loading system



➤ **NOTICE WHEN ORDERING:**

- Describe its application.
- Specify if current or voltage type is used for the overfills & grounding switches.
- Specify voltage.
- Other useful details or contact us.

TOTAL MEASUREMENT SOLUTIONS PROVIDER



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