

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 Gb
- Enclosure : IP 65
- Standard Voltage : 24VDC ; optional for 220VAC.
- 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**

<b>Electrical Supply</b>	20VDC to 26VDC, 9W
<b>Input</b>	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
<b>Output</b>	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
<b>Display</b>	Vacuum Fluorescence Display (VFD, 128×64), displaying in English or LCD Type
<b>Pushbutton Structure</b>	16 Hall Effect pushbuttons, the buttons and housing are separated completely
<b>Communication</b>	Dual Communication Ports: RS-485, surge protected Baudrate: 1200, 2400, 4800, 9600, 14400, 19200 Max. Distance: 1.2km
<b>Operating Conditions</b>	Ambient Temperature: -40°C ~ +65°C Relative Humidity: no more than 95%
<b>Classification</b>	Ex d IIB T6 Gb
<b>Enclosure</b>	IP 65
<b>Dimensions(mm)</b>	L=350×W=260×H=138
<b>Weight</b>	14kg

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

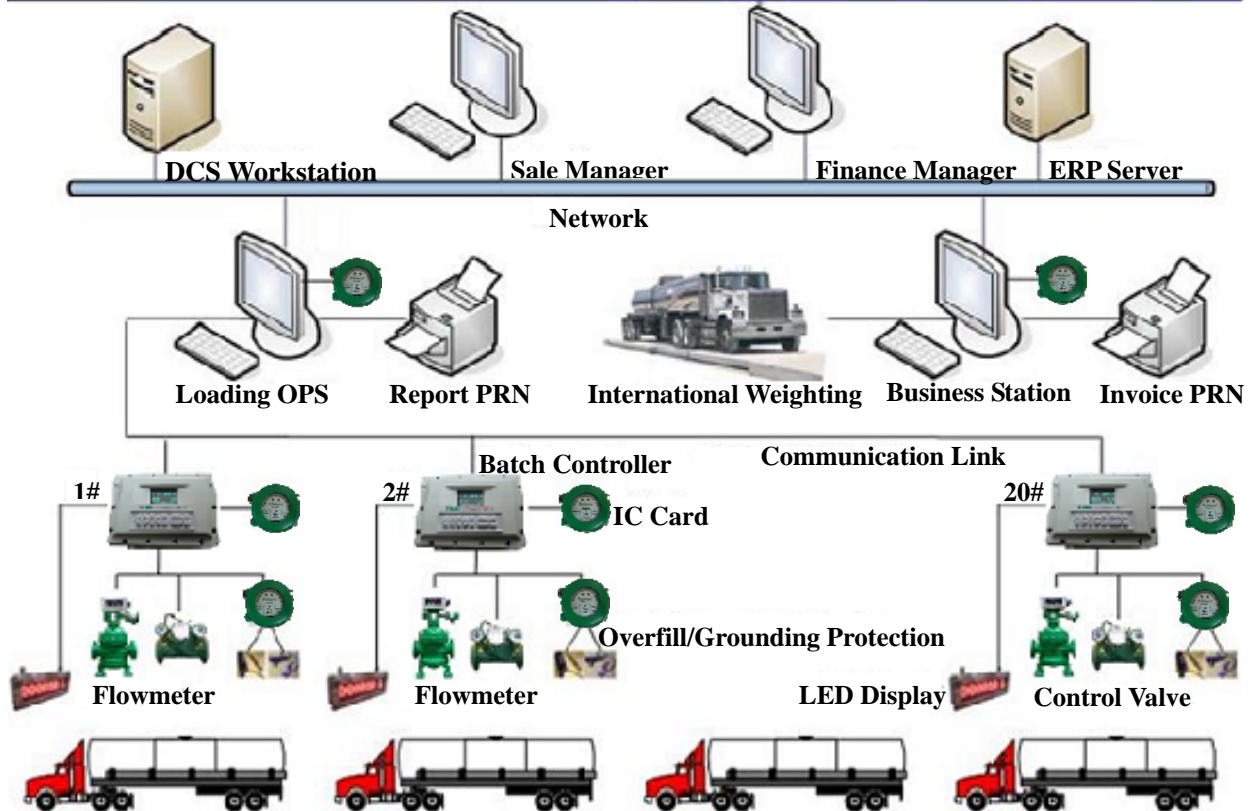
The GrowcoLoad GL-E series batch controllers can be easily communicated with Terminal Automation Systems (TAS) with such typical arrangements as shown below :



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.

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