

Gate-Weigh® LAN Controller

FEATURES

- Single port communication interface for multiple transmitters/indicators
- Constant update and storage of node data eliminates polling/response delay time
- Modbus Plus or RTU protocol and Allen-Bradley Remote I/O
- Self-configuring BLH Nobel Digi-System Plus Network

APPLICATIONS

- Plant-wide weigh system LAN
- Controller
- 16 system interface with PLC or DCS systems

DESCRIPTION

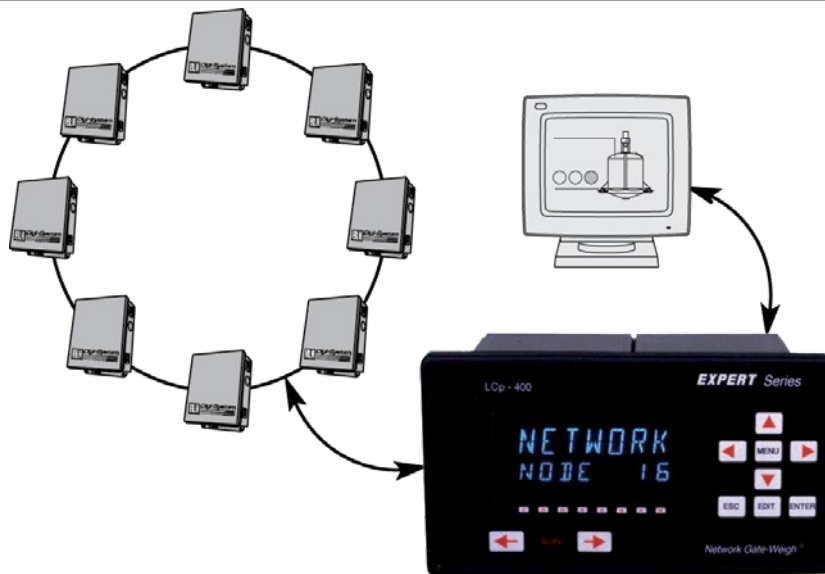
The LCP-400 Gate-Weigh is a multi-scale local area network controller and communication gateway. This network bridge device uses BLH Nobel Digi-System Plus network communication technology to continuously scan up to 16 weigh system nodes and is equipped with an Allen-Bradley Remote I/O or Modbus Plus network port output. The LCP-400 is also available with a conventional MODBUS RTU serial output.

Digi-System Plus network is a self configuring, enhanced RS-485 based communication link that operates at a rate of 57.6 Kbps over distances of up to 4000 ft. Operationally, the LCP-400 scans each node on the network continuously and updates internal register locations with current weigh, diagnostics and status data. Through the gateway port, a host PLC, PC or DCS can perform read/write commands to retrieve data without polling and response delays typical in other multi-drop network arrangements.



In addition to the network communication and gateway functions, the LCP-400 is also a centralized scanning terminal that displays weight & status information from any node on the network. Currently, the LCP-400 Digi-System Plus network is compatible with the LCP-100 Indicator/Transmitter, LCP-200 Indicator Controller, DXp-40 Transmitter, and PS-2010 Controllers.

CONFIGURATION



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| SPECIFICATIONS | | PARAMETER | VALUE |
|---|--|-------------------------------------|---|
| DISPLAY | | PARAMETER | VALUE |
| Type | high intensity amber LED display | BLH DIGI-SYSTEM PLUS NETWORK | |
| Active Digits | 7 digit alpha numeric 0.59 in high for weight: 8 digit alpha numeric 0.39 in high for status | Serial RS-485 | two wire |
| ENVIRONMENT | | Baud Rates | 9600, 28800, or 57600 |
| Operating Temperature | -10 to 55°C (15 to 131°F) | Protocol | proprietary |
| Storage Temperature | -20 to 85°C (-5 to 185°F) | Addressing | up to 16 nodes |
| Humidity | 5 to 90% RH non-condensing | GATEWAY INTERFACES | |
| Voltage | 117/230 VAC ±15% @ 50/60 Hz | Allen-Bradley | remote I/O – ¼ logical rack |
| Power | 15 W max. | Modbus RTU | slave |
| ENCLOSURE | | Modbus Plus | peer-to-peer |
| Dimensions (std.) | 4.63×8.40×6.5 in H×W×D | APPROVALS/CERTIFICATIONS | |
| NEMA 4/4X, 12 (opt) | 8.5×13.5×10.45 in H×W×D | FM (Factory Mutual) | 3611 (Class I, II, III; Div.1,2; Groups A-G) |
| MATERIALS | | CSA | C22.2 (Class I, II, III; Div.1,2; Groups A-G) |
| Aluminum case and bezel overlay meets 94 V-0 rating | | | |

