

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 Digi-System Plus Network

DESCRIPTION

The LCP-400 Gate-Weigh is a multi-scale local area network controller and communication gateway. This network bridge device uses BLH 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.

BLH 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

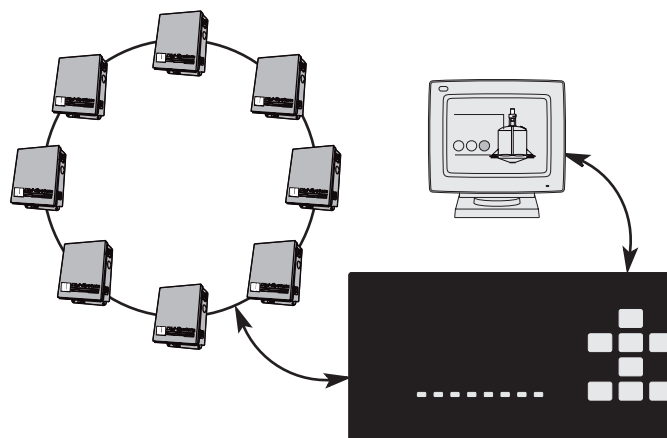
updates internal register locations with current weigh, diagnostics and status data. Through the gateway port, a host PLC, PC or DCS can perform read/write commands to retrieve data without polling and response delays typical in other multi-drop network arrangements.

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.

APPLICATIONS

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

CONFIGURATION



SPECIFICATIONS

Display

| | |
|---------------|--|
| Type | high intensity cobalt green vacuum fluorescent |
| Active Digits | 7 digit alpha numeric 0.59" high for weight; 8 digit alpha numeric 0.39" high for status |

Environment

| | |
|-----------------------|-----------------------------|
| Operating Temperature | -10 to 55° C (15 to 131° F) |
| Storage Temperature | -20 to 85° C (-5 to 185° F) |
| Humidity | 5 to 90% rh non-condensing |
| Voltage | 117/230Vac ±15% @ 50/60Hz |
| Power | 15 watts max |

Enclosure

| | |
|---------------------|------------------------------|
| Dimensions (std) | 4.63 x 8.40 x 6.5 in. HxWxD |
| NEMA 4/4X, 12 (opt) | 8.5 x 13.5 x 10.45 in. HxWxD |

Materials

Aluminum Case & Bezel overlay meets 94V-0 rating

BLH Digi-System Plus Network

| | |
|---------------|-----------------------|
| Serial RS-485 | two wire |
| Baud Rates | 9600, 28800, or 57600 |
| Protocol | proprietary |
| Addressing | up to 16 nodes |

Gateway Interfaces

| | |
|---------------|-------------------------------|
| Allen-Bradley | remote I/O - 1/4 logical rack |
| Modbus RTU | slave |
| Modbus Plus | peer-to-peer |

Approvals/Certifications

| | |
|---------------------|---|
| FM (Factory Mutual) | 3611 (Class I, II, III; Div.1,2; Groups A-G) |
| CSA | C22.2 (Class I, II, III; Div.1,2; Groups A-G) |

DIMENSIONS

