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, th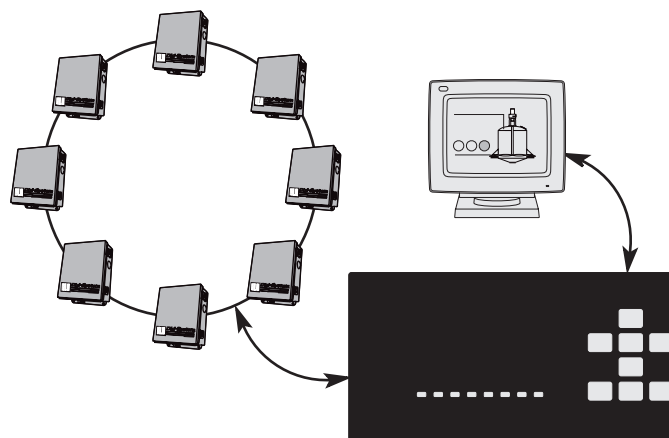e LCp-400 scans each node on the network continuously and updates internal register locations with current weigh, diagnostics and status data. Through the gateway port, a host PLC, PC or DCS can perform read/write commands to retrieve data without polling and response delays typical in other multi-drop 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

LCP-400

BLH

Gate-Weigh® LAN Controller

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, ll, III; Div.1,2; Groups A-G)
CSA	C22.2 (Class I, ll,III; Div.1,2; Groups A-G)

DIMENSIONS

MATERIALS:
 KEYPAD: POLYESTER
 BEZEL: 2024 ALUMINUM WITH EPOXY POWDER COAT FINISH
 ENCLOSURE: 6063-T6 ALUMINUM WITH BLACK ANODIZE FINISH