BLH NOBEL
A VPG Brand

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
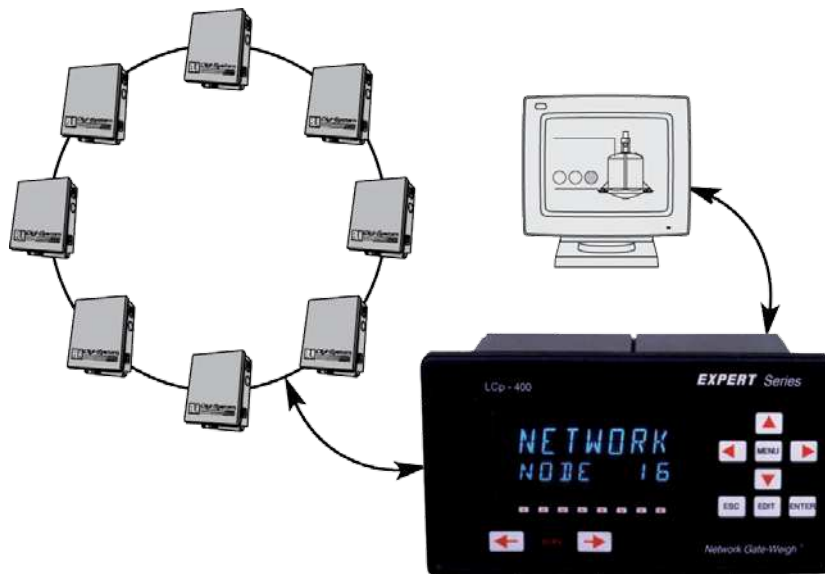- 16 system interface with PLC or DCS systems

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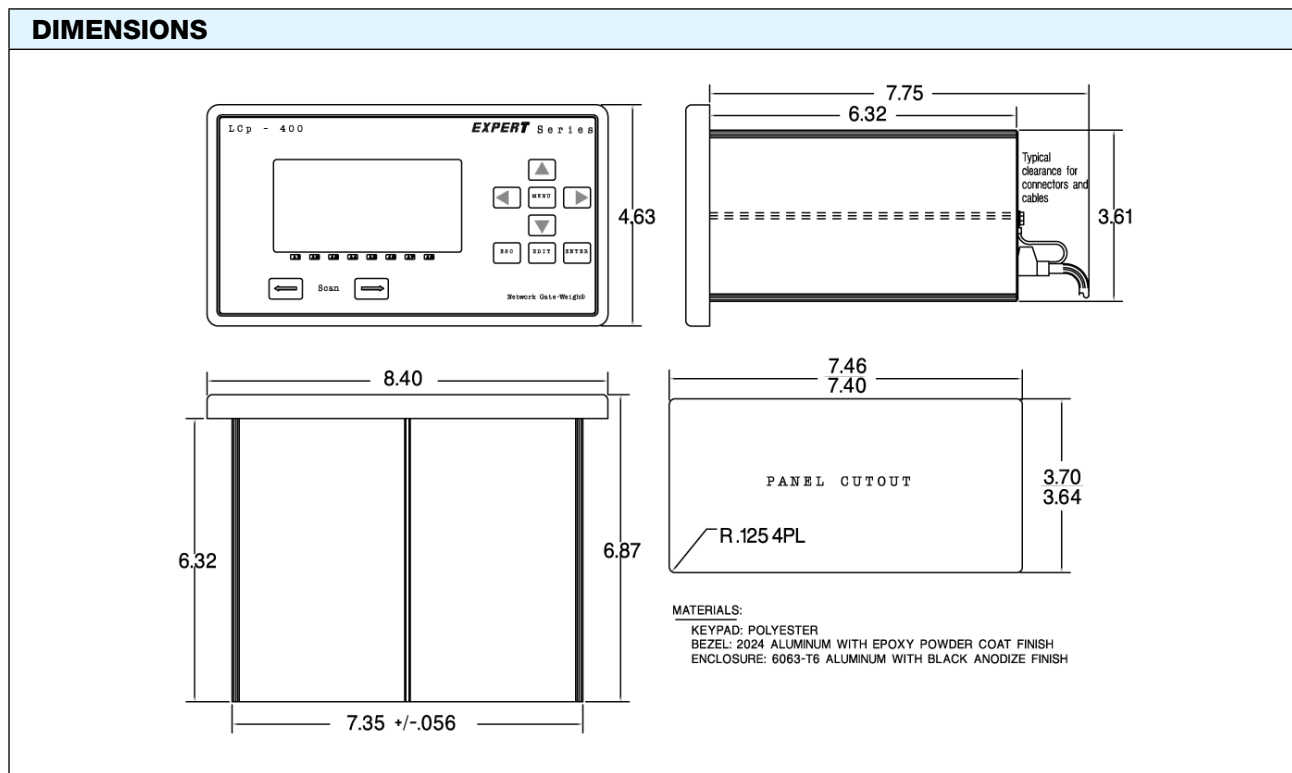
In addition to the network communication and gateway functions, the LCp-400 is also a centralized scanning terminal that displays weight & status information from any node on the network. Currently, the LCp-400 Digi-System Plus network is compatible with the LCp-100 Indicator/Transmitter, LCp-200 Indicator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

CONFIGURATION

LCp-400

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SPECIFICATIONS

PARAMETER	VALUE
DISPLAY	
Type	high intensity amber LED display
Active Digits	7 digit alpha numeric 0.59 in high for weight: 8 digit alpha numeric 0.39 in 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	117/230 VAC ±15% @ 50/60 Hz
Power	15 W max.
ENCLOSURE	
Dimensions (std.)	4.63×8.40×6.5 in H×W×D
NEMA 4/4X, 12 (opt)	8.5×13.5×10.45 in H×W×D
MATERIALS	
Aluminum case and bezel overlay meets 94 V-0 rating	

PARAMETER	VALUE
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 – ¼ 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

2910_MC-00574
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