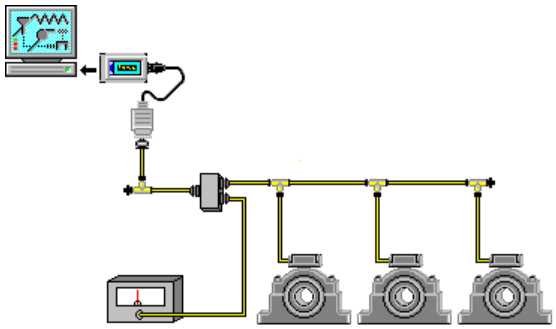
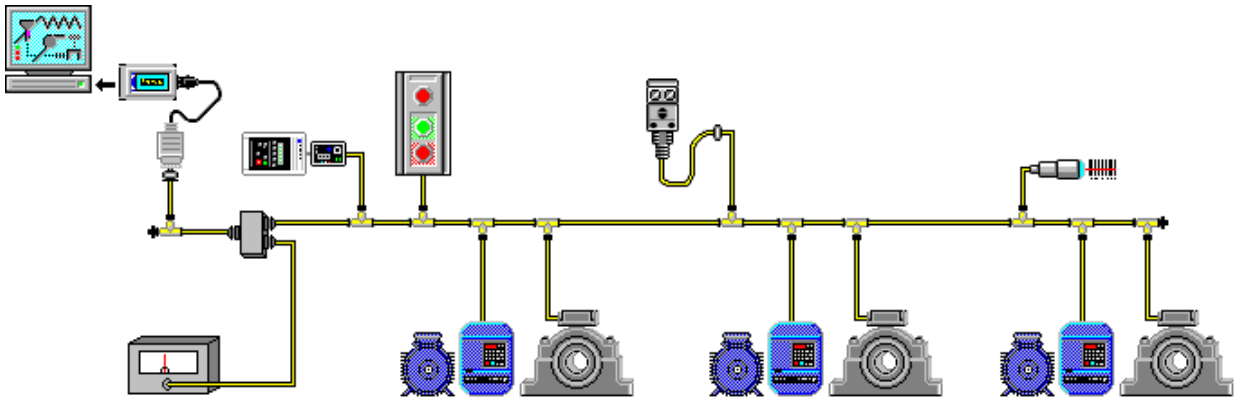


Introduction

An EZLINK System is a system that facilitates control and predictive maintenance of mechanical power transmission equipment. EZLINK modules, either factory installed on new Dodge bearings and gear reducers or retrofit onto your existing equipment, monitor the temperature, vibration, and shaft speed of your mechanical power transmission equipment. A DeviceNet "trunk and drop" network of the EZLINK System carries power to the EZLINK modules and data from the module to the monitoring and control tools. EZLINK Monitor software in the EZLINK System provides a graphic link to the EZLINK module data, immediate trending and analysis tools, and database tools for storage. Adding Allen-Bradley PLC's to an EZLINK System provides automated control of mechanical power transmission equipment.

The EZLINK System has many advantages. As an online system that is updated several times each second, an EZLINK System eliminates the potential for failures that occur between readings in "walk-by" approaches to mechanical power transmission monitoring. Built on an open network (DeviceNet) with common data types, an EZLINK System allows the user to choose the components that best fit each application rather than tying the system to proprietary components. The open network approach of an EZLINK System also allows the user to leverage investment in the network for control and monitoring of equipment other than mechanical power transmission.

Feature	Function	Benefits
DeviceNet Networking	Communication	Well-defined, open communication built on widely available CAN technology adopted by over 200 suppliers worldwide.
Trunk-and-drop Network Layout	Communication	Plug new EZLINK modules and other devices into "live" networks without disrupting communications. Simplify wiring layout and reduce installation costs.
EZLINK Module Integrated Sensors	Equipment Monitoring	Eliminate costly power supplies and transmitters across the manufacturing floor.
EZLINK Module Operational Parameters	Equipment Monitoring	Offload the responsibility of validating the status of your mechanical equipment from the PLC.
EZLINK Module Polled Communication	Communication	Regular delivery of data to the control and monitoring tools provides accurate trending of real-time data.
EZLINK Change-Of-State Communication	Communication	Immediate delivery of data when alarm limits are crossed supports instantaneous correction.
EZLINK Monitor Software Database	Data Collection	Store data for long-term analysis with any ODBC database tool (Excel, Access, FoxPro, dBase, etc).
EZLINK Monitor Software Trending	Temperature and Vibration Analysis	Early warning of failures facilitates cost-effective predictive maintenance over costly panic maintenance.
EZLINK Monitor Software FFT Analysis	Vibration Analysis	Recognize abnormal vibration that may indicate a problem but not significantly raise the vibration level.
EZLINK Monitor Configuration	EZLINK Module Configuration	Intuitive "point-and-click" update of all EZLINK Module Operational Parameters.



System Recommendations*

*Note: All Part Numbers from Allen-Bradley.

Trunk Cable

Predetermined Length	1485C-P*X*N5-M5 *X* = 1, 2, 3, 5, or 10m
Thick Cable Spools	1485C-P1-A*XXX* *XXX* = 50, 150, 300m

Drop Cable 1485R-P*X*N5-M5
X = 1, 2, or 3m

Terminating Resistors

Left Resistor	1485-T1N5
Right Resistor	1485-T1M5

T-Port Tap 1485P-P1N5-MNR1

Power Supply 1786-DNETPS

Power Tap 1485T-P2T5-T5

EZLINK Monitor Specifications

Features

- WinDNet16-compatible communication
- Industry-standard FFT algorithm
- ODBC-compliant database interface.
- Pass-through EZLINK module status
- Two “over temperature” alarm settings.
- Two “high vibration” alarm settings.
- Two “under speed” alarm settings.

Recommended System

- IBM-compatible PC with 486/66MHz or greater
- Microsoft Windows 95
- 16 MB RAM
- 2 MB Hard Disk Space
- 800x600 resolution SVGA Graphics
- Allen-Bradley 1784-PCD PCMCIA DeviceNet Interface

EZLINK Module Specifications

Inputs

Accelerometer (internal)	12 bits
Temperature (internal)	12 bits
Speed Proximity Switch (external)	16 bits
Discrete Inputs	3

Current Draw (via DeviceNet) 110mA @ 25V
225mA @ 11V

Dimensions 4.375” x 1.875” x 3.250”

Weight 612 g

Enclosure Rating exceeds NEMA4

Operational Temperature -40 to 85C

Storage Temperature -55 to 100C

Relative Humidity 95% non-condensing

Status Indicator Network/Status

Network Address 00 - 63

Exchange Method:

Strobe	No
Poll	Yes
Change-of-State	Yes (Status only)
Cyclic I/O	No

Messaging Type:

Slave Mode	Yes
Peer-to-Peer	No

Configuration:

Data Rate:	Non-Volatile Memory
Node Address:	Non-Volatile Memory
Parameters:	Non-Volatile Memory