ENCLINE
Artificial Lift Technologies

High Frequency Data Collector

Locally collect / analyze slow serial data from Lufkin Well Manager 1.0 generation devices then transmit rapidly

The technology of older devices such as the Lufkin Well Manager was great in its day, but their slow serial communication hogs bandwidth of new high speed networks. The High Frequency Data Collector solves this problem by polling the data locally, performing desired analytics, and then communicating the data at much higher speeds. This frees up network resources while providing high frequency data.

Each High Frequency Data Collector will initially function as a Modbus/TCP Gateway, allowing Modbus TCP data requests to be sent via serial port to the older serial device. Response data is received by the Edge Device, translated to a Modbus TCP response packet and returned via ethernet.

Next, this Edge Computing Device would poll the older serial device at high frequency and process it to meet operators changing needs. This could be simple averaging, performing standard deviation calculations including identifying anomalies, or just collecting massive data for remote data analytics. This device also has MQTT capability, a recent substantial improvement for transferring data and providing notice of events.

WHERE IS THE DATA?

The future of data analytics requires one major thing… Lots of data! This product can provide it

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YOUR PREFERRED PANEL SHOP CAN BUILD IT

Encline is in the technology business, not panel business. We can help with program development, but will assemble these to help get that effort started

For more information on the High Frequency Data Collector please visit us on the Web at:
www.enclinelift.com

Low Cost and Easy to Install

This Edge Computing Device features the Triangle WX100, which has an onboard HMI and keypad. It also communicates over built-in WiFi and via the RS485 port. Features are too numerous to list.

In the picture to the right, it has been packaged with an RS485 to RS232 converter and an RJ-12 serial connector required for the Lufkin Well Manager.

Smartphone monitoring

The Local HMI display is also shown on the WX100 webpage that features actionable buttons just like the WX100. This allows:

- Monitoring realtime information on average pumping speed, PIP, etc
- Review historic information
- Start / Stop high frequency data collection

Every operator can choose what data is most important to them and customize the program to meet their needs. Encline will support this and looks for development partners.

LOOKING FOR DEVELOPMENT PARTNERS FOR MQTT FEATURES

New method of transferring big data

Further increases potential of this device

Possible Joint Effort with Multiple Operators

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