oilquip inc

Electrohydraulic Test Unit

Portable, Fully Functional Control System

Description

Interface

Fluid Power Motion Control Specialist

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Electrohydraulic Test Unit

The Oilquip, Inc. Electrohydraulic Test Unit is designed to be a portable, fully functional control system. It can operate in three different modes:

- Open loop mode
- Closed loop mode
  - requires position transducer feedback
- Auto cycle mode
  - requires position transducer feedback

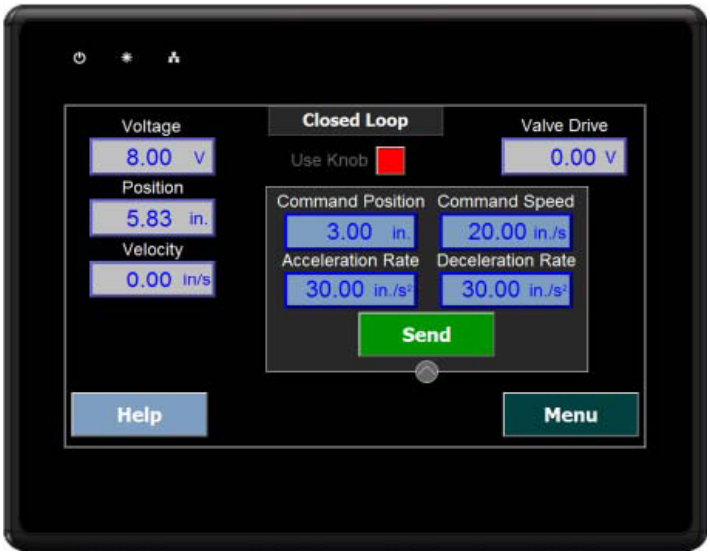
The auto cycle mode cycles between two position commands, pausing for a specified dwell time at each position.

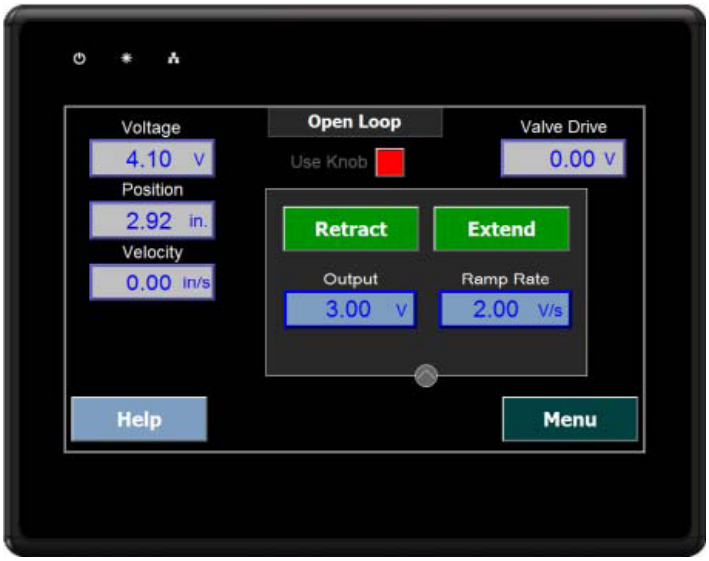
The position transducer feedback can be analog, either voltage or current, or digital, MDT or SSI. The unit comes with two power supply options, 24 VDC or +/-15 VDC to power the transducer. The control output can send either a voltage, +/- VDC, or a current, mA, signal to the valve. The unit can read a voltage or current valve spool feedback position.

This test unit has built in transd ucer detection, determining if a transducer is present of not.

The output knob gives the operator ability to adjust output signal or position command with just a twist.

The USB monitor port allows a computer to connect to the internal motion controller, creating a self contained system.





Operator Interface

This test unit features a touch screen, giving the operator the ability to quickly view and change parameters with just a touch.

The system uses a unique screen for each of the modes, as seen in the figures above and below.

When a transducer is detected, a setup screen appears, allowing for the operator to configure an analog or digital transducer. These calibration screens allow for quick and simple calibration of position transducers. Other quick screens include a tuning, output, HMI, and spool position setup screens.

In addition to the set of comprehensive setup and calibration screens, this test unit also offers detailed help screens, as seen in the figure below. These help screens include transducer wiring screens, minimizing operator error.