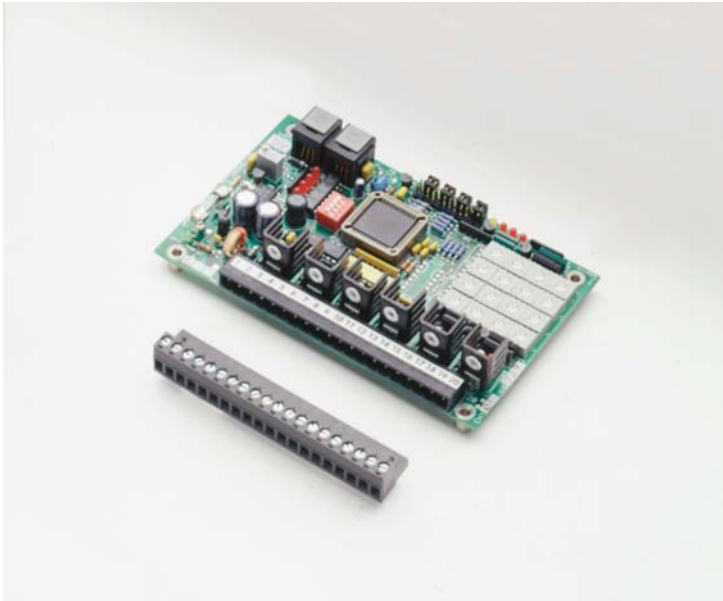


## EH100 Controller



- ❑ **Custom applications**  
... useful for OEM's that require special solutions
- ❑ **Field programmable**  
... use a standard pocket screw driver to make adjustments
- ❑ **Electro-hydraulic drive**  
... PWM valve coil control for all popular brands

The EH100 is a compact and versatile electronic module that utilizes a micro-controller to achieve precise control of most electro-hydraulic proportional control valves. The EH100 offers the OEM designer an array of standard features with which to implement a semi-custom control system. The EH100 comes complete with digital inputs, analog inputs, Power Mosfet valve drive outputs, adjustment trimmers, de-pluggable screw terminal interface, status LED's and a port for a remote display.

The EH100 allows the OEM designer to use standard pre-programmed routines designed for electro-hydraulic control. The standard routines for your application are pre-loaded by the factory. Adjustment of individual variables is easily done by using the onboard trim adjustment pots or by using a handheld programming tool, RD202. Typical variables are; minimum or maximum valve flows for controlling speed, ramp up and down timers, PWM frequency, etc. Custom programs may have additional timers, counters, deadband, gains, etc.

### Typical applications:

- ◆ Dual valve drivers, ie. up/down and left/right functions operated from a crossing joystick.
- ◆ Four single directional valve drivers, ie. variable speed control for conveyors, auger, pumps, etc.
- ◆ PLC interface for electro-hydraulic control.

The digital inputs handle most current or voltage devices, such as limit switches, pulse counters, photo-eyes, panel switches or command signals from a PLC. The valve drive outputs use adjustable pulse width modulated low-side power Mosfets with built-in inductive flyback protection. The analog inputs have an 8 bit resolution and work with voltage or current signals. Optional amplifiers for gain and offset adjustments to condition special sensor signals. The power input ranges from 10-32 vdc, and is reverse polarity protected. An adjustable voltage reference is available to drive auxiliary sensors and operators.

### Specification:

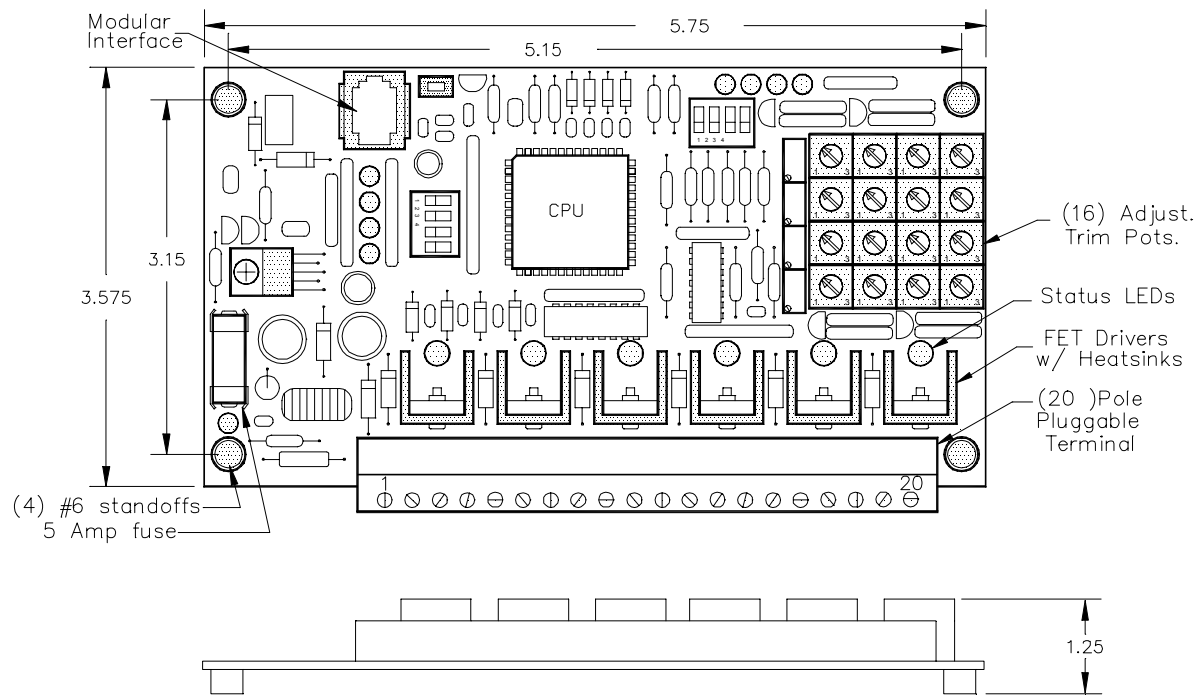
- ◆ Power: 10vdc to 32vdc, 8 amp fuse, 5mm X 20mm
- ◆ Outputs: (4) PWM proportional drivers, 2 amp each, 10-32vdc, Power Mosfets w/ flyback diodes  
(2) Solenoid drivers, 2 amp each, 10-32vdc, Power Mosfets w/ flyback diodes  
(1) Adjustable voltage reference supply for external sensors and joysticks.
- ◆ Inputs: (4) Digital type (on/off), voltage switching, Cmos or current sinking, 10ma.  
(4) Analog, 0-5vdc, 0-10vdc, 4-20ma, +/-10vdc w/ scaling pre-amp, 8-bit conversion.
- ◆ Interface: (20) pole de-pluggable terminal, 16 to 22 ga. wire, All I/O have LED status indicators.
- ◆ Physicals: Open circuit card, , 3.25" x 5.25" x 1" panel mount (4) #6 screws.

EH100E1C

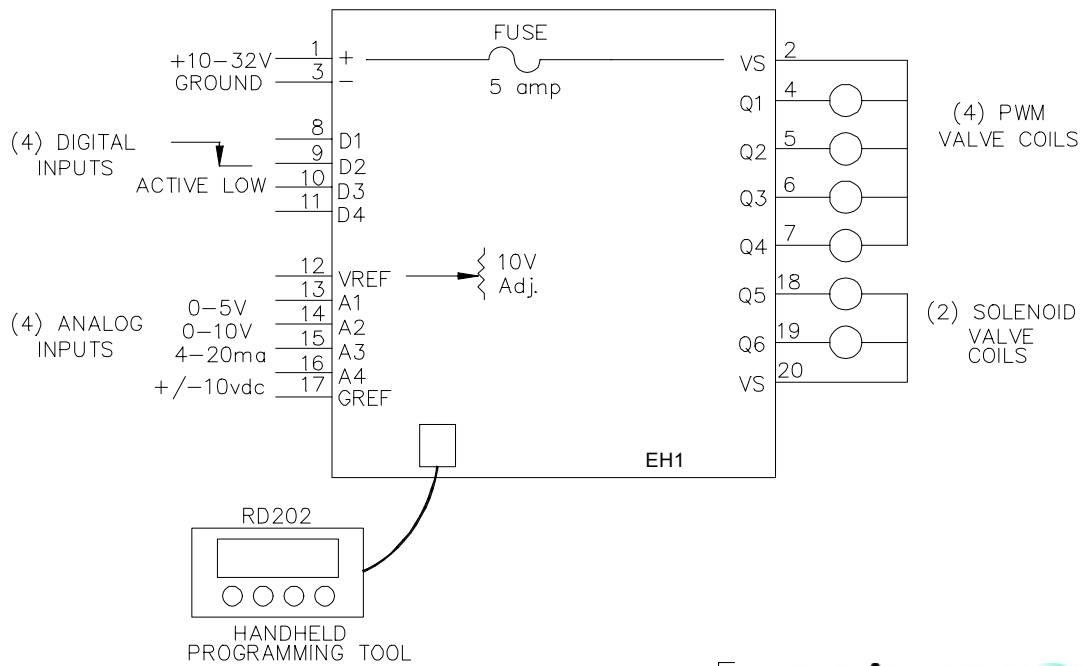
# EH100

MECHANICAL

ALL DIMENSIONS ARE IN INCHES



ELECTRICAL



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