



DESIGN AND MANUFACTURE OF QUALITY ELECTRONIC EQUIPMENT AND INDUSTRIAL CONTROL SYSTEMS

*For immediate release...*

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## **Harsh Environment HMI with PLC Functionality**

**FREDERICKTOWN, OHIO February 2011** - Divelbiss Corporation, providing cost-effective customized solutions to standard industrial automation and control problems since 1974, announces the HEC-HMI Harsh Environment HMI addition to our family of Harsh Environment Controllers.

Based on patented\* PLC on a Chip™ technology, the HEC-HMI series controller allows for programmable intelligence under less than ideal conditions due to a sealed, water-tight enclosure with gland connectors. The standard enclosure is sealed against the environment and is screw and sub-plate mountable. The HEC-HMI series is programmed using Divelbiss EZ Ladder software which supports ladder diagram with function block programming.

The current product is available as HMI only or HMI with a Programmable Logic Controller in the same enclosure. The entire HEC-HMI Series features extended operating temperature range from -40° to 80° C and 8 to 32 VDC input power. The backlit LCD display is available in either 2 line x 16 character or 4 line by 20 character configurations. Character height for the 2 x 16 option is 0.38 inch and 0.187 inch for the 4 x 20. In addition, there are a total of nine (9) pushbutton inputs and four (4) programmable indicators (LED - red). Four (4) of the pushbuttons are in a horizontal row and labeled as function keys. The balance of five (5) buttons are arranged in a compass pattern so they can be used as a joystick input. Network communication is accomplished via the CAN port or by using a second serial communication port which is field configurable for RS323/422/485 as required.

The HEC-HMI models with integral PLCs add these additional features to those of the HMI only version. I/O includes six (6) 8-32 VDC inputs (two are 200 kHz high-speed counters); six (6) digital outputs with four (4) rated to four amps with automatic over-current safety and programmable status monitoring. Four (4) of the outputs are selectable as PWM with internal analog current sensing variables to allow closed loop control of the output loads. The balance of the outputs (2) are SPST dry contacts rated to 2 Amps. There are also two (2) analog inputs which can be field configured individually to 0–20ma or 0–5VDC as required. Analog is available in either 10 or 15 bit resolution.

Typical industrial use includes improved proportional valve control via closed loop, control for engine driven pumps and compressors, mobile asset management and tracking, intelligent mining or oil field equipment, conveyor systems, and marine application. The 8 to 32 VDC input power and wide operating temperature range ( -40° to +80° C ) is particularly useful for ease in utilization by off-highway and marine platforms.

Product specifications and complete User's Manuals for these products are available at our web site:  
[www.divelbiss.com](http://www.divelbiss.com)

For more information please call 800-245-2327; visit our website [www.divelbiss.com](http://www.divelbiss.com); or email a request to [sales@divelbiss.com](mailto:sales@divelbiss.com).

\* Patent 7,299,099

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