

# Digital Mobile Controls

## Model 13RA2BX5

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The Interphasic LLC 13RA2BX5 Digital Mobile Controller is designed for the industrial mobile equipment industry. Each controller is capable of interfacing with pneumatic, hydraulic or electro-mechanical devices. With PWM output capable, electrical loads can be modulated for accurate response.

All digital mobile controllers come with a free programming template for fast software development. At your request, Interphasic LLC can develop the control software to meet your requirements.



### **Features**

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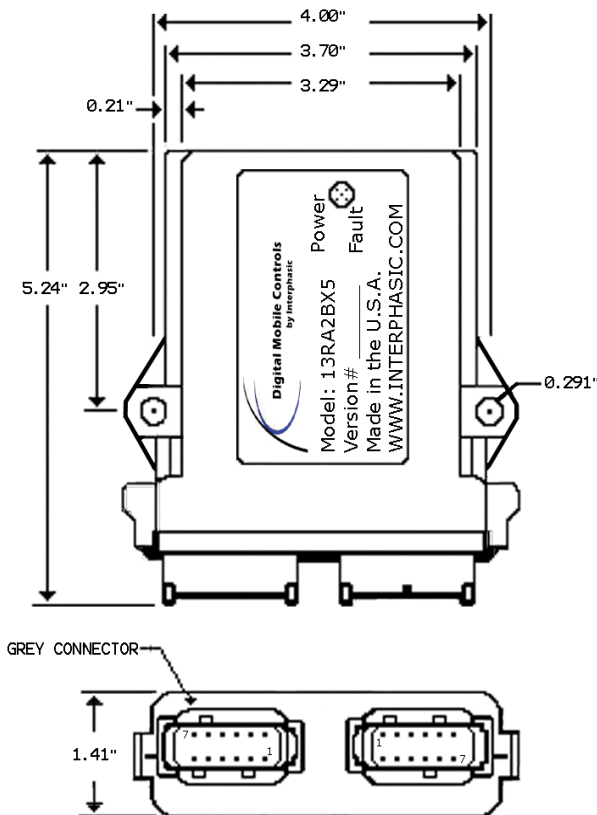
- \* Microchip RISC PIC16F 8-bit Microcontroller
- \* 20Mhz = 200nS Fast execution time
- \* 7.2 kByte Flash memory
- \* 128 Byte EEPROM
- \* 192 Byte RAM
- \* RS-485 Communication interface
- \* Up to 64-controller network
- \* Interfaces with industrial sensors
- \* Digitally hardened against EMI and ESD
- \* Conforms to SAE J1113 transient load dump
- \* In-System flash programmable
- \* Operating temperature -40°C to +85°C
- \* Operating voltage 9 to 30 VDC
- \* 18mA operating current
- \* Outputs are short proof protected
- \* Tell-Tail LED for diagnostic
- \* Compact size of 4.65" x 5.24" x 1.41"
- \* UL 94V-0 flame-retardant classification
- \* Lead-Free assembly
- \* Weight = 9.4 oz
- \* 2 Year warranty



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# DIGITAL MOBILE CONTROLS - Model 13RA2BX5



## About Interphasic LLC

Interphasic LLC designs and manufactures embedded digital mobile controllers used in many industrial markets. These market sectors include transportation, agriculture, aircraft ground equipment and commercial dispensing systems. All controllers can be user programmed or Interphasic LLC can supply a software solution to fit your needs. Call us or visit our website at [www.interphasic.com](http://www.interphasic.com).

## Inputs & Outputs

- \* (12) +/- 30 VDC Digital Inputs  
or
- \* (10) +/- 30 VDC Digital Inputs
- \* (2) 0 to 5 VDC Analog Inputs
  
- \* (1) 0 to 30 VDC Frequency Input
  
- \* (5) 9 to 30 VDC 3A Outputs  
or
- \* (1) 9 to 30 VDC 3A Outputs
- \* (4) 0 to 100% D.C. PWM 3A Outputs
  
- \* (2) RS-485 Interface
  
- \* DIP switch for option selection
  
- \* Tell-Tail LED for controller status
  
- \* Output inductive clamping options
  
- \* Integrated B+ voltage monitor

## Environmental

- \* Operating temperature -40°C to +85°C
- \* Nylon 6/6 thermoplastic sealed housing
- \* Mechanical locking connectors, (water tight)
- \* IP67 rated
- \* Ideally suited to extreme automotive and industrial applications, static or mobile
- \* SAE J1455 - Recommended environmental practices for electronic equipment design (Heavy duty trucks)
- \* SAE J1113 - Recommended practices for shock, vibration and electromagnetic compatibility with immunity to conducted transients on power leads

Rev 1.1



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