

- 3.5" Color Display
- Fully Configurable
- Simple Integration
- Rugged Tactile Buttons
- 24-bit Backlit LED's

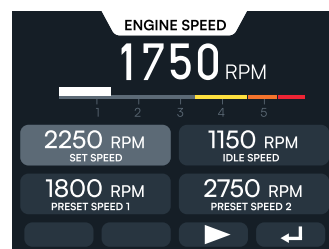
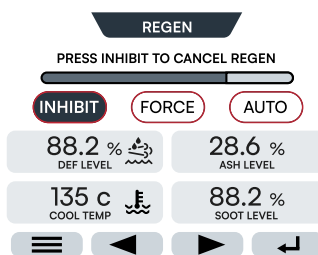


## RUGGED, COMPACT, CONFIGURABLE AND PROGRAMMABLE

An entry level display and a worthy successor to the legendary PV101. It is designed to provide electronic instrumentation and application monitoring for electronic or mechanical engine/battery/mains powered industrial equipment. This display offers robust features with a color LCD, tactile buttons, and outdoor usability.

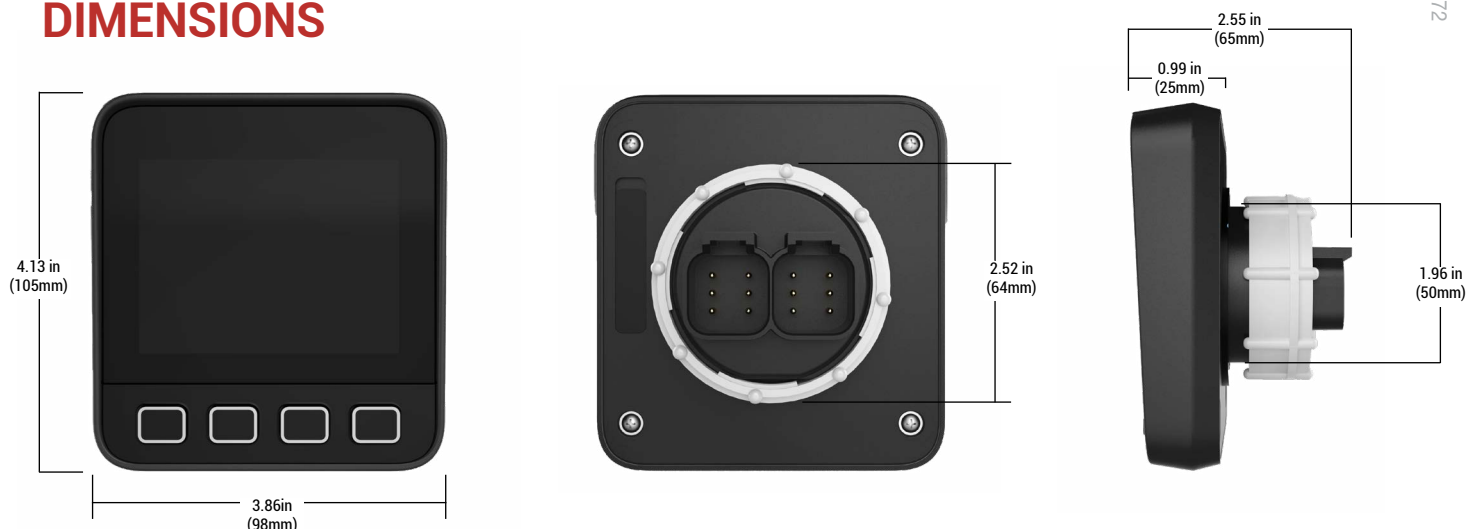
The display is versatile and can be used to provide operator equipment status, fault -conditions, and the ability to monitor configurable parameters. It features support for CAN J1939 & CAN Open in addition to RS485 serial communication to easily integrate into a wide variety of applications.

The display will come out of the box as a fully functional engine monitoring instrument paired with a configurable software application for quick customization of parameters, color schemes and company logos. Support for multiple languages and datalogging is also included.



# S35

## DIMENSIONS



## SPECIFICATIONS

### COMPUTING

|                  |                                                     |
|------------------|-----------------------------------------------------|
| PROCESSOR        | Arm® Cortex®-M33 microcontroller @ 160 MHz (32-bit) |
| OPERATING SYSTEM | Free RTOS                                           |
| STORAGE          | 1 MB Flash Memory                                   |
| RAM              | 320 KB SRAM                                         |
| GRAPHICS         | Integrated Graphics Controller                      |

### DISPLAY/HMI

|                             |                               |
|-----------------------------|-------------------------------|
| SCREEN                      | 3.5-Inch Square, 18-bit color |
| RESOLUTION                  | 320 x 240 QVGA                |
| CONTRAST RATIO / BRIGHTNESS | 800 NITS                      |
| TOUCH PANEL                 | 4 – Tactile Silicon buttons   |
| SURFACE                     | Anti-glare finish             |

### COMPLIANCE

|         |                      |
|---------|----------------------|
| EMC/EMI | ISO 13766, ISO 14982 |
| CE      | Yes                  |
| REACH   | Yes                  |
| ROHS    | Yes                  |

### INTERFACES

|                 |                                                                                   |
|-----------------|-----------------------------------------------------------------------------------|
| CAN             | (1) CAN 2.0B according to ISO 11898-2, J1939 (Selectable 250k/500k/1Mb baud rate) |
| USB             | (1) USB-C 2.0B full speed host                                                    |
| RS485           | (1) HALF DUPLEX                                                                   |
| INPUTS          | (2) Analog (0-5V, 4-20ma, Resistive)<br>(1) Freq In (30Hz – 10KHz)                |
| OUTPUTS         | (2) Digital Low-side open drain 500mA                                             |
| REAL TIME CLOCK | Yes                                                                               |

### ELECTRICAL/ENVIRONMENTAL

|                   |                                        |
|-------------------|----------------------------------------|
| OPERATING VOLTAGE | 6 - 36 VDC, Reverse polarity protected |
| OPERATING TEMP.   | -40°C to +85°C (-40°F to +185°F)       |
| STORAGE TEMP.     | -40°C to +85°C (-40°F to +185°F)       |
| PROTECTION        | IP67                                   |
| VIBRATION         | 7.86 Grms (5-2000 Hz), 3-axis random   |
| SHOCK             | ±50G, 3-axis                           |

### PHYSICAL

|            |                                     |
|------------|-------------------------------------|
| MOUNTING   | 2" SAE HOLE with ring nut           |
| CONNECTORS | (2) 6-pin Deutsch DT06-6 Connectors |

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

FOR MODEL & PART INFORMATION

[ENOVATIONCONTROLS.COM/S35](http://ENOVATIONCONTROLS.COM/S35)

FOR MANUAL & SUPPORT DOCUMENTS

[SUPPORT.ENOVATIONCONTROLS.COM](http://SUPPORT.ENOVATIONCONTROLS.COM)

FOR SUPPORT & WARRANTY

[ENOVATIONCONTROLS.COM/SUPPORT](http://ENOVATIONCONTROLS.COM/SUPPORT)

## SALES CONTACT

**ENOVATION**  
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[www.enovationcontrols.com](http://www.enovationcontrols.com)

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