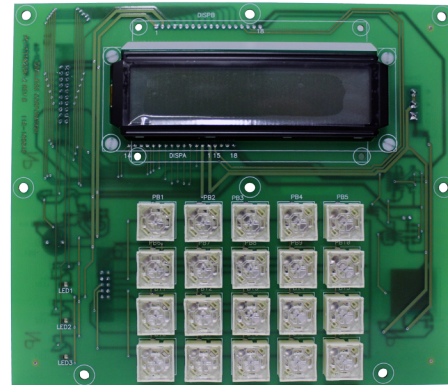


Versatile Base Overview:

The Versatile Base 2000 (VB-2XXX) Series solves today's tough control issues with all the advanced features needed in one product family. The VB-2000 Series includes multiple models on Programmable Logic Controllers, Digital I/O, Analog I/O and VersaCloud M2M Expansion capabilities including thermocouple inputs, Cellular, GPS and an HMI Interface (LCD Display and Keypad) to allow operators to set parameters and identify alarms and faults. With an operating temperature of -40°C to 80°C, the VB-2000 Series is able to control in almost any temperature environment.

Versatile Base HMI (VBDSP-XX)

- ▶ Operating Temperature -40° to 80° C
- ▶ Programmable LED Indicators
- ▶ Up to 20 Programmable Buttons
- ▶ Backlit LCD Display
- ▶ 2x16 Lrg. Char. / 4-20 Std. Char. Display Options
- ▶ Automatic Display (built-in) Heater Control
- ▶ Heater Disable Switch
- ▶ Programmable Beeper
- ▶ Panel Mount
- ▶ Optional Panel Kits with Overlay / Faceplate



VBDSP-01 Expander Front View

2015003.0

VB-2000 Series LCD Display / Keypad Expanders

The VBDSP-XX connects to the VB-2XXX controller's on-board Display port (20 pin) and Keypad port (10 pin) These VBDSP-XX user interface expanders are open-board and are designed to mount through the rear of a panel door. The VBDSP-XX provides multiple configurations of LCD display sizes and number of buttons based on model.

With the OEM in mind, the VBDSP-XX, as an open-board solution is designed to mount directly in a panel door (through the door) and is to be sealed by an overlay on the door front. Panel components and kits may be purchased that include the faceplate and generic overlay. This construction provides the OEM or user with the opportunity to provide a custom text / logo to the front of the panel.

Divelbiss can provide the faceplate, generic overlay or a custom overlay or help you design one with your logo and specific button labeling. Autocad drawings are available for download for the panel cut-outs required to use the VBDSP-XX.

Additional features including up to 3 programmable LED indicators and a programmable buzzer are also standard on the VBDSP-XX user interface expander.

VBDSP-XX User Interface Expanders Specifications, Features & Models			
FEATURE	MODELS		
	VBDSP-01	VBDSP-02	VBDSP-03
LCD Size	2 Row, 16 Columns, 3/8" Character Height	4 Row, 20 Columns, Std Character Height	2 Row, 16 Columns, 3/8" Character Height
Heater	Built-in / Automatic / Manual Disable	Built-in / Automatic / Manual Disable	Built-in / Automatic / Manual Disable
# of Buttons	20, 4 Row, 5 Column	20, 4 Row, 5 Column	6, 2 Row, 3 Column
Functionality	Numeric, Programmable Button Monitoring	Numeric, Programmable Button Monitoring	Programmable Button Monitoring
User Programmable LED Indicators	3	3	2
User Programmable Buzzer / Beeper	Yes	Yes	Yes
Style / Mounting	Open Board, Panel Mount from Rear	Open Board, Panel Mount from Rear	Open Board, Panel Mount from Rear
Dimensions	7.3"W x 6.4"L x 1.7"H	7.3"W x 6.4"L x 1.7"H	7.3"W x 6.4"L x 1.7"H
Operating Temperature	-40°C to +80°C ¹	-40°C to +80°C ¹	-40°C to +80°C ¹
1. -40C requires minimum of 20VDC Input Power to VBDSP-XX			

Versatile Base HMI Faceplate Kits & Overlays

- ▶ Easy Mounting for VBDSP-XX HMI's
- ▶ Direct Panel Mounting with Cut-out
- ▶ Sealed by Gasket
- ▶ All Mounting Hardware Included in Kits
- ▶ Custom Overlays Available

VB-2000 Series Plug-in VBDSP Faceplate Kits

The VB-2000 Series HMI options (VBDSP-XX) provide powerful display, keypad and auditory feedback options over wide temperature ranges. The VBDSP-XX is designed with the OEM in mind allowing for custom mounting and custom overlay with your specific terminology, naming and logo.



VBDSP-FPKIT-02 with VBDSP-02 Front View

For prototyping purposes or low volume applications, Divelbiss offers faceplate kits designed to work specifically with the VBDSP-XX and provide a sealed mounting solution. The faceplate in the kit comes with the overlay factory installed. The VBDSP-XX mounts to the back side of the faceplate using the provided mounting hardware. The entire faceplate assembly with the installed VBDSP-XX is then installed in a panel. The panel will require a cut-out to accept the faceplate assembly.

The faceplate kit includes the faceplate, installed overlay, all mounting hardware for the VBDSP-XX and the finished faceplate assembly mounting in the panel and a sealing gasket.

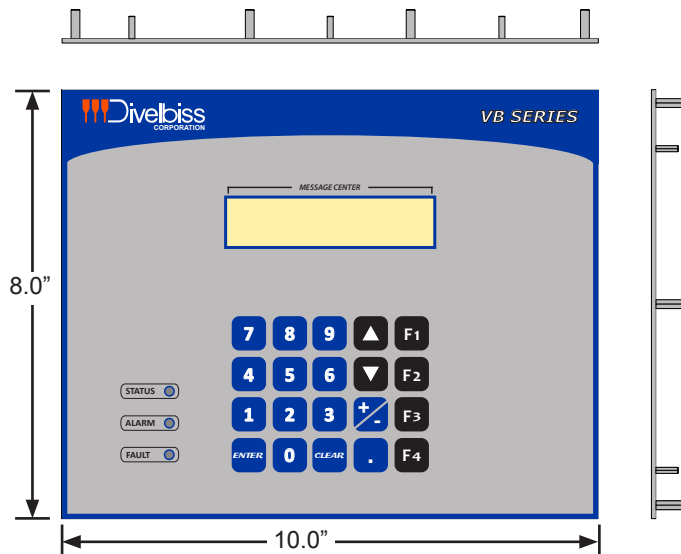
VB-2000 Series Plug-in VBDSP Overlays

The VB-2000 Series HMI options (VBDSP-XX) kit overlays may be purchased as separate items for installation on a panel without the requirement of the faceplate.

Overlays may be ordered for the VBDSP-XX with customized text, graphics colors and logos to meet your exact needs.

VBDSP-XX Faceplates & Accessories	
Part #	Description
VBDSP-FPKIT-01	VBDSP-01 HMI Front Panel Kit with Generic Overlay, Sheet metal Faceplate and Gasket. Includes all mounting hardware.
VBDSP-FPKIT-02	VBDSP-02 HMI Front Panel Kit with Generic Overlay, Sheet metal Faceplate and Gasket. Includes all mounting hardware.
999-108727	Generic Overlay for VBDSP-01 (2x16 display)
999-108728	Generic Overlay for VBDSP-02 (4x20 display)

Mechanical Build & Dimensions:



Included Items:	
Qty	Description
8	#6 Lock Washer
10	#8 Lock Washer
8	#6 Flat Washer
8	6-32 Screw 1/4"
10	8-32 Nut
10	#8 Flat Washer
1	Gasket
1	Faceplate with Overlay
1	Assembly Drawing