PowerTRAC™ Monitor
Operator Interface Unit
For multiple Genius™ PowerTRAC Blocks

1 DESCRIPTION

The Horner APG PowerTRAC Monitor Operator Interface Unit (OIU) is designed for use with 1 to 12 Genius PowerTRAC Blocks. In addition to all calculated data, the line frequency can also be displayed for all 12 PowerTRAC Blocks. Floating point math is performed in the Operator Interface Unit, so a PLC is not required. This unit is seen as a standard Genius Block by the LAN, therefore any combination of OIUs and PowerTRAC Blocks (not to exceed 12 PowerTRAC Blocks or 32 total devices) can be used.

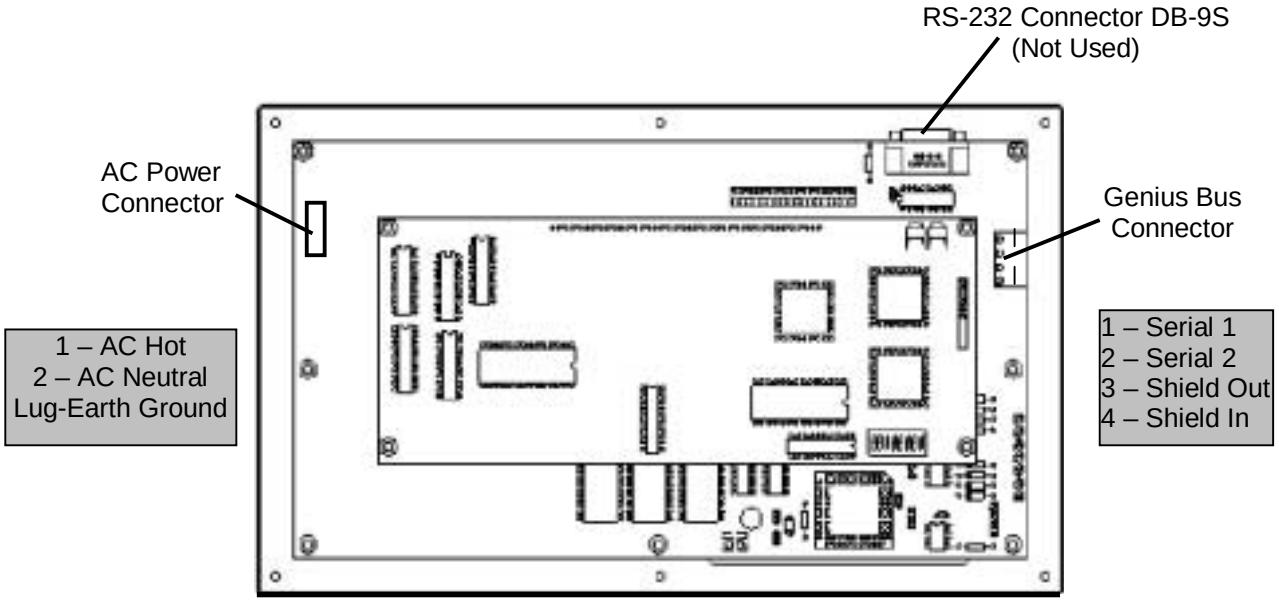


Figure 1 – HE693OIU901 (Back View)

2 SPECIFICATIONS

Table 1 – HE693OIU901 Specifications	
Specification	**HE693OIU901**
Power Consumption	90-240 VAC, 50-60 Hz, 1 Amp (max)
Mounting Requirements	Panel Mounting, NEMA 4-12
Communications	Genius Network Interface (GENI)
Operating Environment	0 to 60C (32 to 140F) 0 to 95% Humidity (non-condensing)
Non-Volatile Memory	EEPROM 10,000 write cycles

3 INSTALLATION

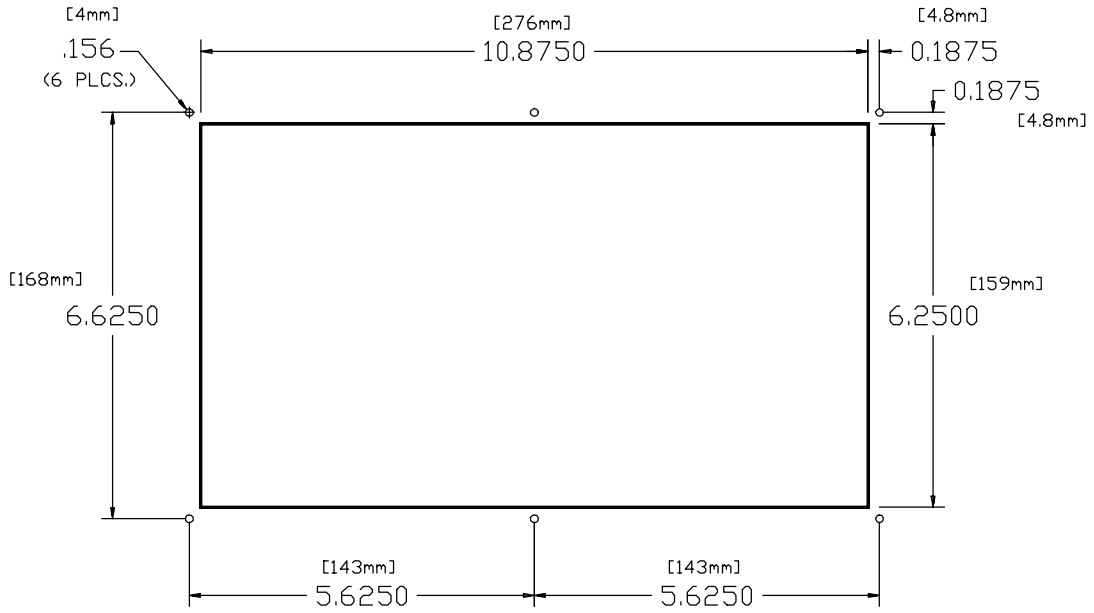
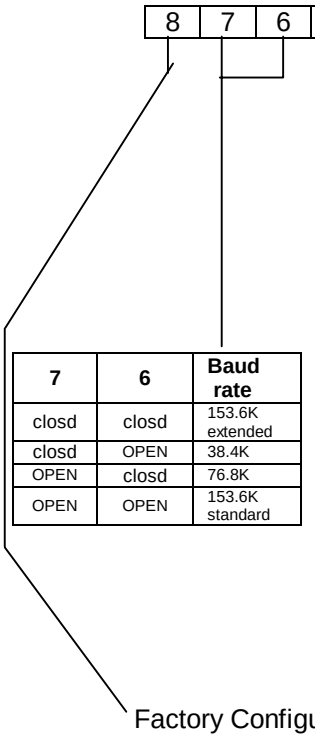


Figure 2 – Panel Cutout

4 CONFIGURATION



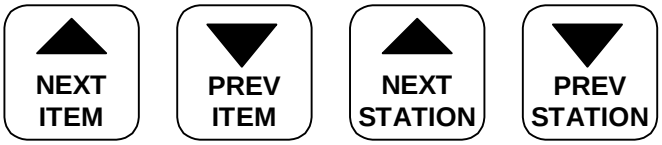
7	6	Baud rate
closd	closd	153.6K extended
closd	OPEN	38.4K
OPEN	closd	76.8K
OPEN	OPEN	153.6K standard

5	4	3	2	1	Addr	5	4	3	2	1	Addr
closd	closd	closd	closd	closd	0	OPEN	closd	closd	closd	closd	16
closd	closd	closd	closd	OPEN	1	OPEN	closd	closd	closd	OPEN	17
closd	closd	closd	OPEN	closd	2	OPEN	closd	closd	OPEN	closd	18
closd	closd	closd	OPEN	OPEN	3	OPEN	closd	closd	OPEN	OPEN	19
closd	closd	OPEN	closd	closd	4	OPEN	closd	OPEN	closd	closd	20
closd	closd	OPEN	closd	OPEN	5	OPEN	closd	OPEN	closd	OPEN	21
closd	closd	OPEN	OPEN	closd	6	OPEN	closd	OPEN	OPEN	closd	22
closd	closd	OPEN	OPEN	OPEN	7	OPEN	closd	OPEN	OPEN	OPEN	23
closd	OPEN	closd	closd	closd	8	OPEN	OPEN	closd	closd	closd	24
closd	OPEN	closd	closd	OPEN	9	OPEN	OPEN	closd	closd	OPEN	25
closd	OPEN	closd	OPEN	closd	10	OPEN	OPEN	closd	OPEN	closd	26
closd	OPEN	closd	OPEN	OPEN	11	OPEN	OPEN	closd	OPEN	OPEN	27
closd	OPEN	OPEN	closd	closd	12	OPEN	OPEN	OPEN	closd	closd	28
closd	OPEN	OPEN	closd	OPEN	13	OPEN	OPEN	OPEN	closd	OPEN	29
closd	OPEN	OPEN	OPEN	closd	14	OPEN	OPEN	OPEN	OPEN	closd	30
closd	OPEN	OPEN	OPEN	OPEN	15	OPEN	OPEN	OPEN	OPEN	OPEN	31

Table 2 – GENI DIP Switch Assignments

5 OPERATION

This unit will power up with the sign-on screen, "PowerTRAC Monitor." Pressing any of the function keys will put the unit into monitoring mode. All of the screens defined on this unit contain Read-only data fields, therefore the numeric keypad is not used. The function key layout is shown below. These keys are used to change between PowerTRAC Stations and between different power parameters from the same PowerTRAC. The NEXT STATION and PREV STATION keys change to the same parameter of the next or previous PowerTRAC. The NEXT ITEM and PREV ITEM keys change to the next or previous power parameter of the same PowerTRAC.



6 SET-UP

The PowerTRAC Blocks should be configured as GENIUS blocks addresses 1 to 12. If fewer than 12 PowerTRACs exist then the address should correspond to the total number of PowerTRAC blocks. For example: If only 6 PowerTRAC Blocks were used then they should be configured for addresses 1 through 6. The High User Screen Number should also be changed if fewer than 12 PowerTRAC Blocks are used. Below is a table of the correct High User Screen Numbers for each possibility of PowerTRAC Blocks.

Table 3 – High User Screen Number

PowerTRAC Blocks	1	2	3	4	5	6	7	8	9	10	11	12
High User Screen Number	19	39	59	79	99	119	139	159	179	199	219	239

To change the High User Screen Number the unit must be powered up. After the sign on screen appears press the mode key. A screen with the text "Change to Mode # (0-239): 240" should appear. Hold the SHIFT key as you press the ENTER key. This will take you out of the AUTORUN mode. You will see menu selections that include "Enter AUTORUN" and "Run Self Test." Cursor to the menu selection "Cfg High Screen" and press ENTER. The first time this is done the flashing value will be 239. You will need to change this value to match your configuration. This value will be selected from the table above. Once this value has been entered, press the ENTER key and you will return to the main menu. Cursor to the menu selection "Enter AUTORUN" and press ENTER. A screen with the text "Enter Display # (0-249): 0" will be displayed. Enter the number 240 here and then press enter. The unit should then be powered down then back up before putting into operation. This will save the changes you have made.

NOTES