Horner APG's Data Access Unit
Product Specifications and Installation Data

1 DESCRIPTION

Horner APG's Data Access Unit provides inexpensive functionality to PLC users. This NEMA 4-12, panel mountable unit allows PLC users to access the complete PLC I/O table, where changes can be made to machine setpoints, etc. The Data Access Unit features a two-line by 16 character LCD display. The LCD characters are bright and highly visible with a character height of 0.38". Eight tactile feel keys allow the user to select, display, and/or change registers in the PLC. The unit communicates to the PLC SNP port through an on-board RS-422 port. The Data Access Unit is powered by 5VDC, which is provided to the unit through the communications port. Optional 24VDC powered units are also available. The Data Access Unit is not programmable, its functionality is pre-defined at the factory.
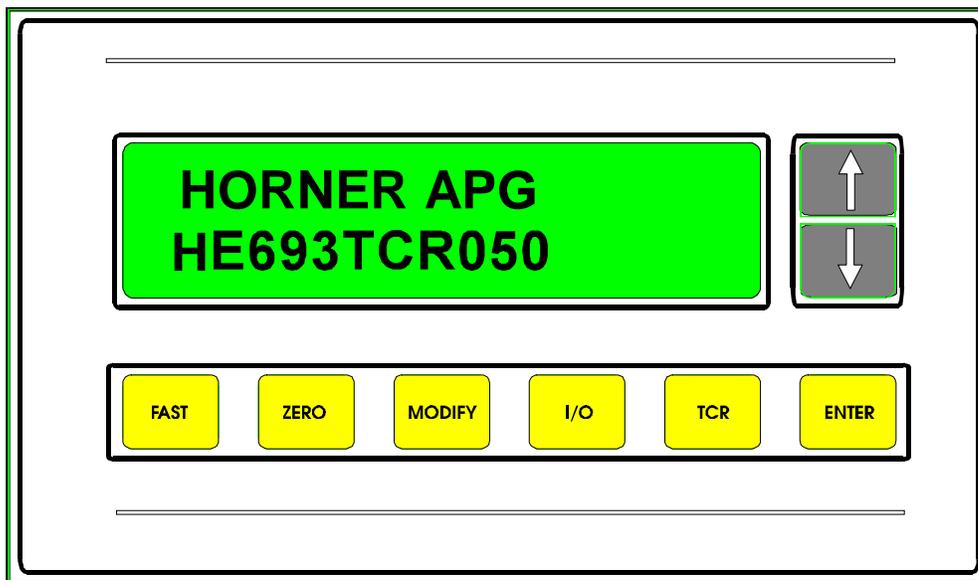
Figure 1 – Front Panel (Actual Size)

2   SPECIFICATIONS

Table 1 – HE693TCR050 Specifications			
Specification		Specification	
NEMA Rating	4-12	Baud Rate (fixed)	19200
Height	3.50"	Parity, Data Bits, Stop Bits	0, 8, 1
Width	6.00"	DC Operating Voltage	5V
Depth	2.13"	Current	250mA
Display Lines x Characters	2 x 20	Operating Temperature	0-60°
Character Height	.375"	Relative Humidity, non-condensing	5-95%

3   COMMUNICATIONS CABLES
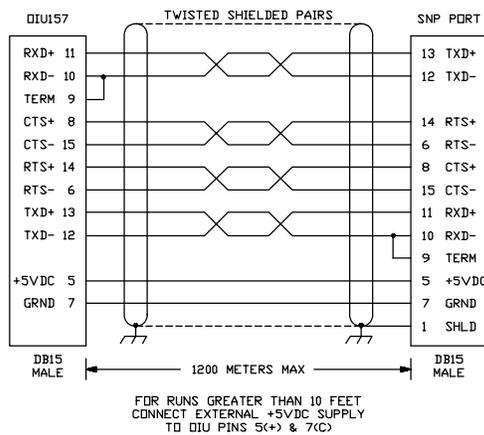
Figure 2 – TCR050 to SNP Port
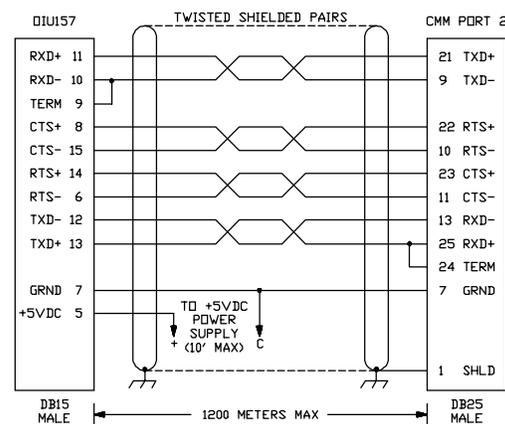
Figure 3 – TCR050 to CMM Port 2
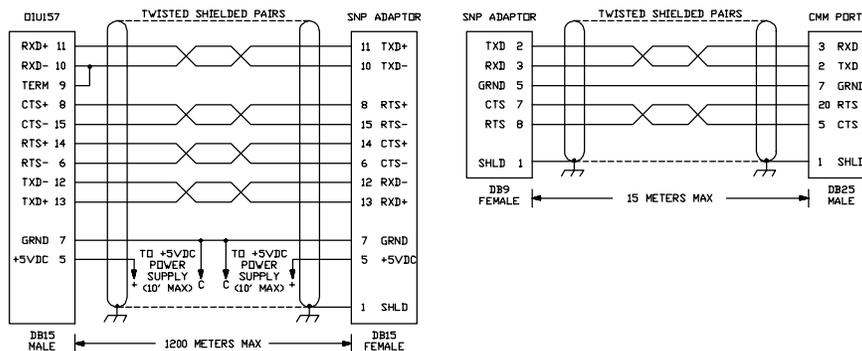
Figure 4 – TCR050 to CMM Port 1

4   PANEL CUTOUT
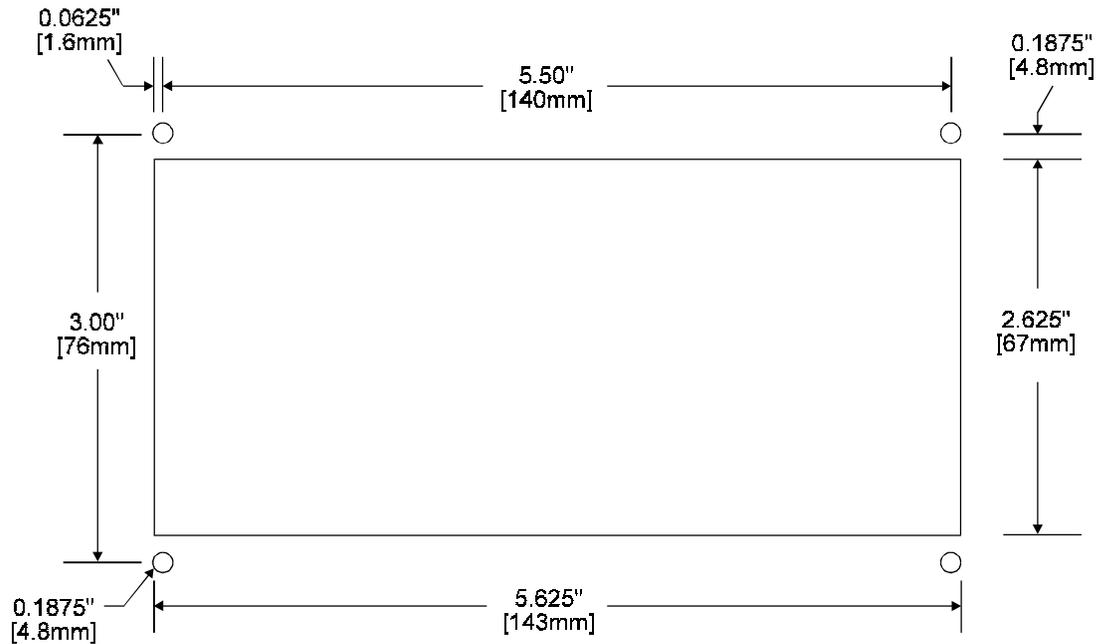
Figure 5 – Panel Cutout

5   OPERATION

Selecting Between Timer , Counter, or I/O Display Mode

| **Figure 6 - I/O Display Mode** | **Figure 7 - Timer Display Mode** | **Figure 8 - Counter Display Mode** |

Pressing the **TCR** key switches the display between viewing I/O Registers, Timers, and Counters. The unit assumes that timers and counters begin with %R1.

Selecting the Data to View

While in I/O Display Mode, the **I/O** key is used to select the Register type to be monitored.

Pressing ↑ and/or ↓ selects the I/O point or timer/counter to be displayed.

Pressing one of the arrow keys and the **FAST** key at the same time causes the I/O point number or timer/counter number to increment or decrement more quickly.

Modifying Data

When the desired I/O point or timer/counter preset is displayed, pressing the **MODIFY** key will cause its value to flash.

Pressing the ↑ or ↓ key causes the I/O value to increment or decrement.

Pressing one of the arrow keys and the **FAST** key at the same time causes the data value to increment or decrement more quickly.

Pressing the **ENTER** key causes the new data value to be written to the I/O register.

Zeroing

Pressing the **ZERO** key sets the selected I/O register value or timer/counter preset to 0.

6   TECHNICAL ASSISTANCE

For user manual updates, contact Horner APG, Technical Support Division, at (317) 916-4274 or visit our web site at www.heapg.com.