

Low Cost Serial Remote Displays

With RS-232C/RS-422/RS-485 I/O

MODELS

HI-Q111

HI-Q112

HI-Q112



1/8 DIN standard size,
4 DIGIT 0.8" LED

DESCRIPTION: PI's new HI-Q111 & HI-Q112™ series of serial input remote displays are compatible with any ascii serial communications drivers. The communications protocol is a simple string containing the "s" start character, "xx" address, "d" and data to be displayed "888.8" followed by the <cr>. (example S01D123.4<cr> will display 123.4 on device with address 01).

Baud rate and address is software programmable (9600 Std). Both models have an LED on the upper left corner that can be addressed as sign, over-range or alarm. All connections are made through screw terminal connectors.

The HI-Q111 can be powered by 5VDC±5%, isolated 8-32VDC (or 24VAC) or external 120VAC power supply.

The HI-Q112 accepts 5VDC ±5%; 8-32VDC (24VAC) or 120/240VAC power input and its front is NEMA4 rated.

The HI-Q111 can be ordered in explosion proof housing for hazardous environment applications.

FEATURES:

- All ASCII Characters
- Programmable Baud Rate
- Programmable Address
- Limited Alpha Characters
- 5VDC Power Input
- 8-32VDC Power Input
- 120/240VAC Power Input
- NEMA4 Front Panel (HI-Q112)
- Screw Terminal Connector
- Explosion Proof Housing Available
- Optional GREEN LED Display
- Large 0.8" tall LED digits (HI-Q112)
- Standard 0.6" tall LED digits (HI-Q111)
- Low Cost

HI-Q111



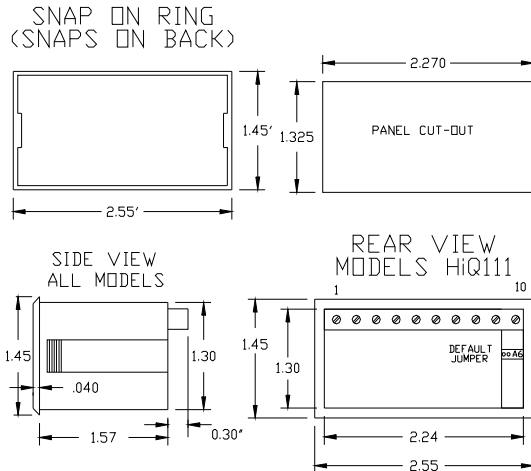
ACTUAL SIZE (2.55x1.45") 4 DIGITS 0.6" LED

SPECIFICATIONS @ 25°C

PARAMETER	HI-Q111	HI-Q112
Display Size	0.6" High	0.8" High
Power Consumption	1.0W Max.	1.50W Max.
Power Input (Non Isolated)	5VDC ±5%	5VDC ±5%
Power Input (Isolated)	8-32VDC (12-24VAC)	8-32VDC (12-24VAC)
Power Input (Isolated)	120VAC (External)	120/240VAC (Internal)
Baudrate (9600 Std.)	300-9600 Software select.	300-9600 Software select.
Address (00-256)	Software programmable	Software programmable
Protocol Compliance	RS232C/RS422/RS485	RS232C/RS422/RS485
Operating & Storage Temperature	0-60°C & -20-80°C	0-60°C & -20-80°C
Environmental	NEMA12	NEMA4 (IP65)
*Hazardous (Explosion Proof)	Yes	Consult Factory
Housing Material	Polycarbonate 94VO	Polycarbonate 94VO
Isolation to Power Input	500V (except 5VDC)	500V (except 5VDC)

* **Note:** Explosion Proof Option meets Class I, Div1 & 2 groups B,C,D; Class II, Div 1 & 2 groups E,F,G; Class III, Nema 3,4,7,9 & 12; FMC, CSA, Cenelec and Baseefa.

HIQ111 MECHANICAL

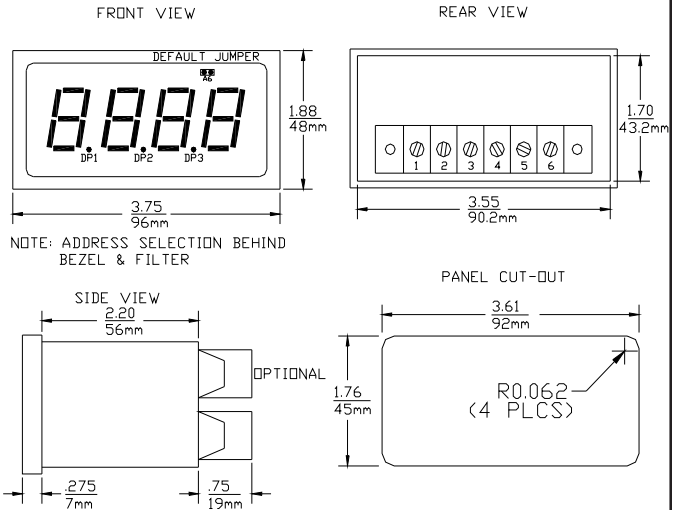


TERMINAL DESCRIPTION:

- 1: +VDC in; 2: -VDC In; 3: NC; 4: +5VDC I/O
- 5: NC; 6: Vcc Return(GND.); 7: RXD/DI; 8: TXD/DO
- 9: NC; 10: NC

Note: When 8-32VDC or AC Power is included, its inputs are isolated from 5 VDC, GND, & Serial I/O lines.

HI-Q112 MECHANICAL



NOTE: ADDRESS SELECTION BEHIND BEZEL & FILTER

TERMINAL DESCRIPTION:

- 1: RXD/DI; 2: TXD/DO; 3: DIG. GND (+5 RETURN)
- 4: +5VDC I/O; 5: +VDC In/AC High; 6: -VDC In/AC Low

ORDERING INFORMATION (01/2003)

HI-Q111	1	2	3	4	5
HI-Q111-	□	□	□	0	0
SERIAL INPUT					
0	..... RS-232C				
1	..... RS-485				
2	..... RS-422				
POWER INPUT					
0	..... 5VDC				
1	..... 8-32VDC				
2	..... 120VAC				
HOUSING					
0	..... Standard				
2	..... Explosion Proof				

Note:
1. 120 / 240VAC power input is externally mounted when ordered with the HI-Q111 series only. When ordered with the HI-Q112, the power supply is self contained.

HI-Q112	1	2	3	4	5
HI-Q112-	□	□	□	0	0
SERIAL INPUT					
0	..... RS-232C				
1	..... RS-485				
2	..... RS-422				
POWER INPUT					
0	..... Non-Isolated 5VDC				
1	..... Isolated 8-32VDC				
2	..... Isolated 120VAC				
3	..... Isolated 240VAC				
HOUSING					
0	..... Standard				
1	..... NEMA 4X				

Note:
1. All power input options are contained within the units enclosure.

*** All Pi's products are covered under a 24 Month warranty.***