

**NOW  
USB**

**51 SEGMENT/4 DIGIT AUTOMATIC TRICOLOR  
BARGRAPH/CONTROLLER  
WITH SERIAL I/O, ANALOG I/O & RELAYS**

**MODEL  
HI-Q114**

**NUCLEAR, SEISMIC & MIL-SPEC** versions of the "**HI-Q114**" are available, including **NVG-3** (Night Vision 3<sup>rd</sup> Generation). Contact OTEK For Specific Information

**DESCRIPTION:** The **HI-Q114** was specifically designed to replace (form & fit) the old electromechanical bargraphs with 21<sup>st</sup> Century Technology exclusive to **OTEK**, the originator of the Automatic Tricolor Bargraph P.I.C. (Programmable Intelligent Controllers). The only similarity is the panel cut out, mounting and bezel, the rest is all OTEK's proven design with thousands of units installed from Outerspace (MIR & I.S.S. Stations) to Military, Petrochemical, Pharmaceutical, Transportation and other critical industries (all products have a **LIFETIME WARRANTY (LTD)**.)

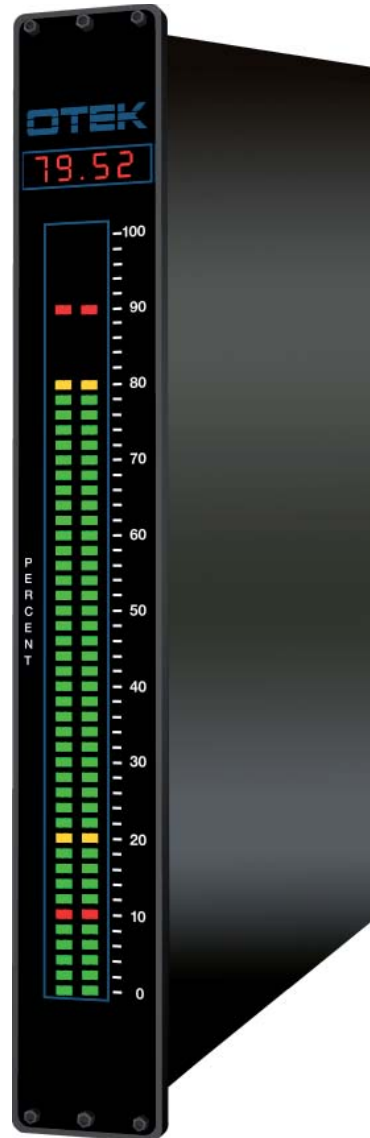
The New "**HI-Q114**" is housed in an all metal case with standard 8" depth and plug-in screw terminal connectors for all I/O except the Serial "RS" has a "**DB-9**" Connector. It can be used as a remote display (serial input) for PLC, DCS, SCADA or Stand Alone, Compliance Output (To Power Transmitters). Power Inputs for 10-32VDC, 90-265VAC (5VDC on Request) are available. The 51 Segment Bargraph changes color automatically upon reaching a programmable limit(s) and can be configured for dimming, blinking, pointers and off. The digital (4 digits) are color coded (red) (green, yellow & blue optional) for ease of identification. The Math Functions (Floating Point Math) allow scientific calculations, such as Polynomials (9<sup>th</sup>), X-Y Tables (TC & RTD) and Flow Calculations

**New USB V2.0 Compatible:**

The USB-232 converter plugs into the DB9 connector and extends 1.25" on the rear. Has standard "Client" connector.

**SPECIFICATIONS:** See Pages C-D

**OTEK's Exclusive Windows Navigator G.U.I. 100% configuration within minutes without lengthy Instruction Manuals (AND IT IS FREE!)**



**• Replaces CHESSELL'S "700" (Eurotherm)**

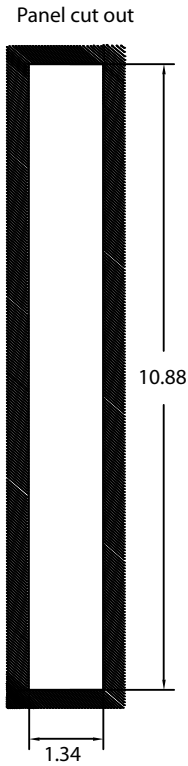
(+ MORE)  
FOR FOXBORO'S MODEL [257](#)  
SEE OUR [HI-Q118](#)  
FOR T.A. BAILEY'S "775" SEE  
OUR [HI-Q117](#)  
FOR T.A. BAILEY'S "RY" &  
DIXSON'S "BG101/202P"  
SEE OUR [HI-Q116](#)

- Polynomials, X-Y Tables
- Math Functions +, -, x, √, ÷
- 1, 2 or 3 Analog Inputs (18 Bits)
- Optional Analog Outputs (16 Bits)
- Optional 10A Relays (6) or Open Collector Transistors (8)
- 51 Segment 8" Tall by 0.5" Wide Automatic Tricolor (R, G, Or.) Bargraph & 4 Digit Displays
- Front Panel Replaceable Filter & Scale
- Optional RF/EMI Shielding
- All Metal Construction
- Front Panel Mounting (Twist Lock)
- Optional 30VDC For Transmitters

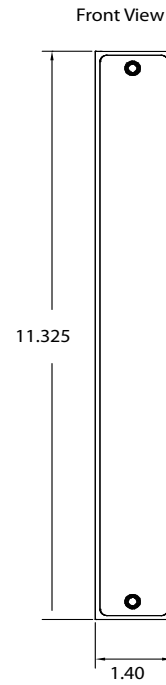
**• Standard 8" Deep/Other Depths On Request**  
MAXIMUM POWER CONSUMPTION: 10 WATTS

# HI-Q114™ MECHANICAL DRAWINGS

## PANEL CUT OUT

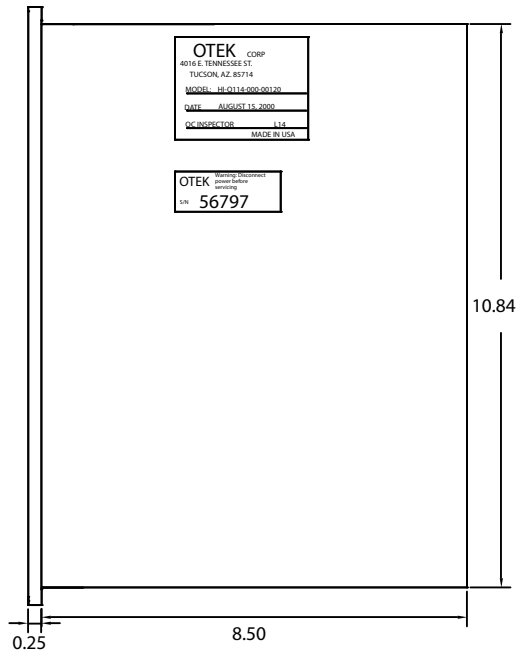


## FRONT VIEW



## HI-Q114 SIDE VIEW

**TWIST LOCK  
FRONT PANEL  
MOUNT (2)**

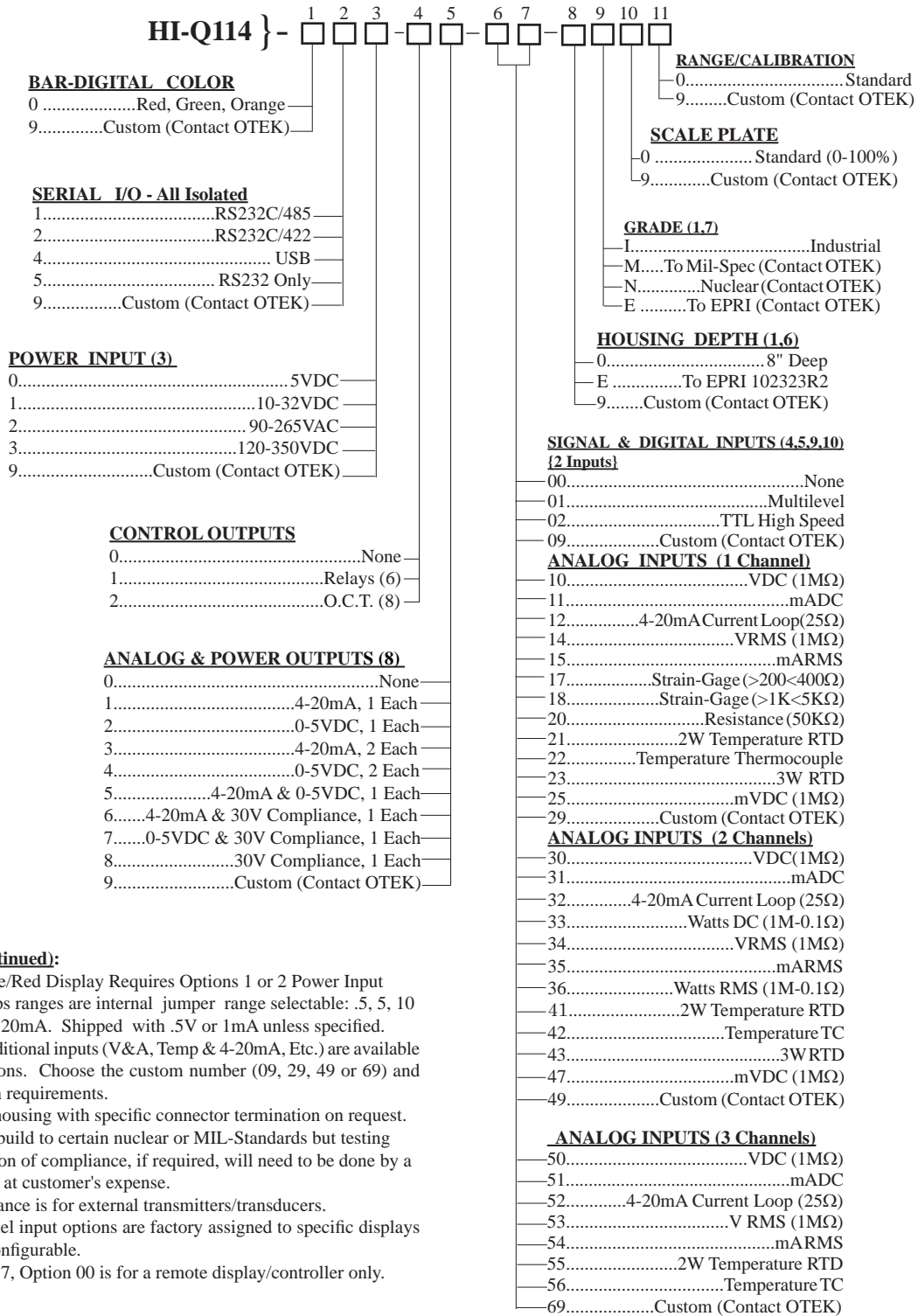


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# HI-Q114™ MECHANICAL & ORDERING INFORMATION 4-11-13

**NOTES: Please READ BEFORE building part number:**

1. If digit 9 is option E, then digit 8 must be option E.
2. See notes on bottom of page.



**NOTES (Continued):**

3. Custom Blue/Red Display Requires Options 1 or 2 Power Input
4. Volt & Amps ranges are internal jumper range selectable: .5, 5, 10 & 50V; 1, 5 & 20mA. Shipped with .5V or 1mA unless specified.
5. Mixed or additional inputs (V&A, Temp & 4-20mA, Etc.) are available as customizations. Choose the custom number (09, 29, 49 or 69) and specify custom requirements.
6. 14.5" deep housing with specific connector termination on request.
7. OTEK will build to certain nuclear or MIL-Standards but testing and confirmation of compliance, if required, will need to be done by a third party and at customer's expense.
8. 30V compliance is for external transmitters/transducers.
9. Multi-channel input options are factory assigned to specific displays but are field configurable.
10. Digits 6 & 7, Option 00 is for a remote display/controller only.

**DOWNLOADS:** For manuals, user-software or drivers:  
[www.otekcorp.com](http://www.otekcorp.com)