

**NOW
USB**

Programmable Intelligent Controllers WITH BARGRAPH-DIGITAL LED OR LCD DISPLAY

**HI-QTBS
HI-Q123
HI-Q124**



HI-QTBS (SHOWN 1/2 SIZE)

- 101 Auto-Tricolor Bars (1% resolution)
- Intensity Control: Off, Dim, Bright, Brightest
- Six(6) 0.6" Alpha-Num. Digits
- Programmable Blinking & Dimming

New !



FEATURES:

- ◆NEW SANITARY CASE
- ◆ Isolated 18-bit A/D(50K Counts)
- ◆ 5V, 10-32VDC; 24 or 90-265VAC Power (10W For LED, 3W For LCD)
- ◆ Isolated 16 Bit 4-20mA or 0-5VDC I/O
- ◆ Four 10A Relays or 8-1/4 A.O.C.T.
- ◆ Isolated USB RS-232C/422/485
- ◆ Isolated Compliance/Excitation to Power Your Sensors/Transducers
- ◆ 1, 2 or 3 Channel Input
- ◆ Menu Driven Keypad
- ◆ NEMA4X Front Panel
- ◆ Math Functions: +, -, x, ÷, √ & More
- ◆ Polynomials
- ◆ Look Up Tables



HI-Q123 (SHOWN 1/2 SIZE)

- 101 Bars (1% resolution)
- Six(6) 0.6" Alpha-Num. Digits
- Four(4) Alarm Annunciators
- Optional Backlight
- High Contrast LCD
- Programmable Blinking & Pointers



HI-Q124 Needle

"Two Modes of Operation: Needle or Fan"

HI-Q124 "FAN"



SANITARY CASE

- 101 Needles (1% resolution)
- Four(4) Digits with Decimal Points
- Mimics Analog Meters
- Single Needle or Multineedle "Movement" (on or off)
- Optional Backlight
- Ideal As Synchroscope



EXPLOSION PROOF

NEW TRICOLOR BACKLIGHT:

AUTOMATIC TRICOLOR (R/G/A) BACKLIGHT (FOR LCD MODELS) ALLOWS YOU TO CHANGE BACKGROUND COLORS AT WILL VIA SERIAL COMMANDS OR SET POINTS INCLUDING BLINKING OF THE DISPLAY. INTENSITY IS EXTERNALLY CONTROLLED.

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

NEWSANITARY CASE!

- Only 6 X 6 X 3" Aluminum
- Double Gasketed and 3/4" NPT
- High Temperature/Impact Window
- Wall/Panel/Pipe Mounting
- Up to 250°F Steam Cleaning
- Water Tight/Submersible

WHAT IS IT

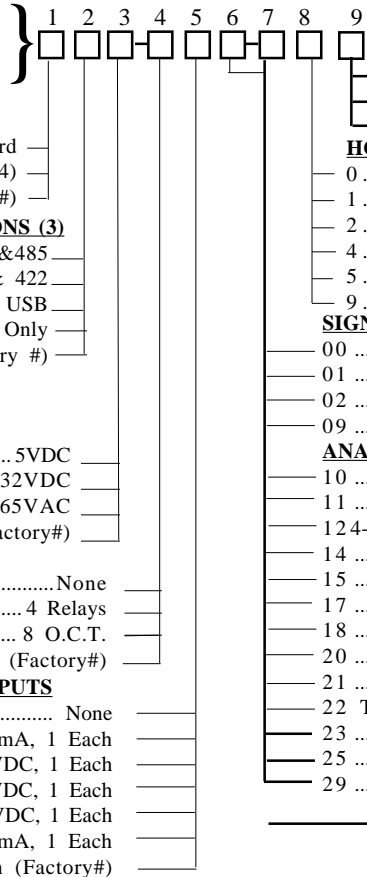
- ◆ It is a Programmable Logic Controller (P.L.C.)
- ◆ It is a Computing Controller
- ◆ It is a DCS to Process Interface
- ◆ It is a Process to SCADA Interface
- ◆ It is a Single Loop Process Controller
- ◆ Or Just a **Plain METER**

EXPLOSION PROOF:

- Approved for:
 - Class I Div 1 & 2 Groups B, C & D;
 - Class II Div 1 & 2 Groups E, F & G;
 - Class III Nema 3, 4, 7 & 9, FM, CSA, Baseefa & Cenelec Certified
- Tempered Glass Window
- Aluminum Casted Housing

ORDERING INFORMATION 09/2007)

HI-QTBS (or -- }
 HI-Q123 (or -- }
 HI-Q124 (or -- }



DISPLAY TYPE(1)

- 0 Standard
- 1 Backlit (123 & 124)
- 9 Custom (Factory #)

SERIAL COMMUNICATIONS (3)

- 1 Isol. RS-232C&485
- 2 Isol. RS-232C& 422
- 4 Isolated USB
- *5 Isolated RS232 Only
- 9 Custom (Factory #)

POWER INPUTS

- 0 5VDC
- 1 10-32VDC
- 2 90-265VAC
- 9 Custom (Factory#)

CONTROL OUTPUTS

- 0 None
- 1 4 Relays
- 2 8 O.C.T.
- 9 Custom (Factory#)

ANALOG & POWER OUTPUTS

- 0 None
- 1 4-20mA, 1 Each
- 2 0-5VDC, 1 Each
- 6 4-20mA & 30VDC, 1 Each
- 7 0-5VDC & 30VDC, 1 Each
- 8 30VDC/30mA, 1 Each
- 9 Custom (Factory#)

GRADE (9)

- I Industrial
- M To Mil-Spec
- N Nuclear (10CFR50-B)

HOUSING & MOUNTING

- 0 Plastic & 3.375"
- 1 Plastic & 90mm
- 2 Metal \$ 3.375
- 4 Explosion Proof (3)
- 5 Sanitary
- 9 Custom (Factory #)

SIGNAL & DIGITAL INPUTS (2 Inputs)

- 00 None
- 01 Multilevel
- 02 TTL High Speed
- 09 Custom (Factory #)

ANALOG INPUTS (1 Channel)(4)

- 10 VDC (1MΩ)
- 11 mADC
- 124-20mA Current Loop (25Ω)
- 14 VRMS (1MΩ)
- 15 mARMS
- 17 Strain-Gage(>200<400Ω)
- 18 Strain-Gage (>1K<5KΩ)
- 20 Resistance (50KΩ)
- 21 2W Temperature RTD
- 22 Temperature Thermocouple
- 23 3W RTD
- 25 mVDC(1MΩ)
- 29 Custom (Factory #)

ANALOG INPUTS (2 Channels)(4)

- 30 VDC (1MΩ)
- 31 mADC
- 32 ..4-20mA Current Loop (25Ω)
- 33 Watts DC (1M-0.1Ω)
- 34 VRMS (1MΩ)
- 35 mARMS
- 36 Watts RMS (1M-0.1Ω)
- 41 2W Temperature RTD
- 42 Temperature TC
- 43 3W RTD
- 47 mVDC (1MΩ)
- 49 Custom (Factory #)

ANALOG INPUTS (3 Channels)(4)

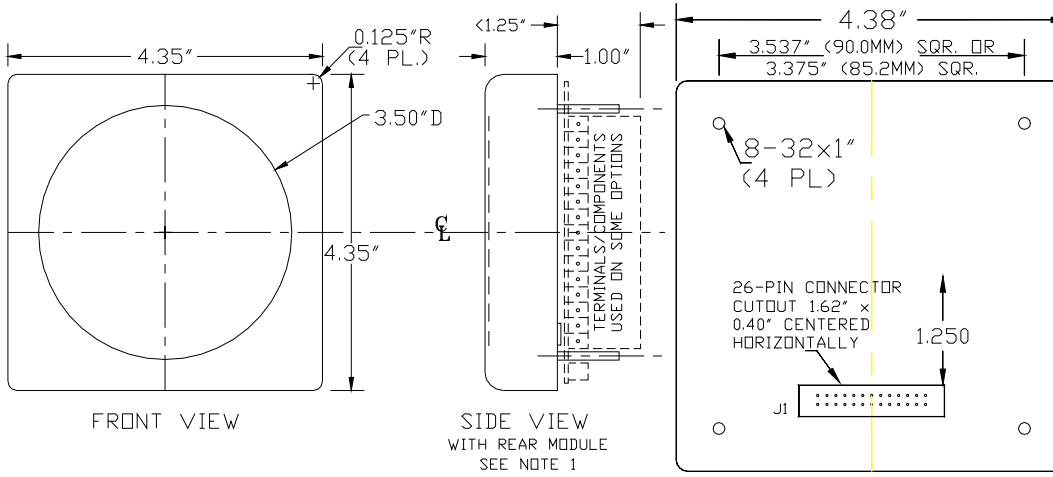
- 50 VDC (1MΩ)
- 51 mADC
- 52 ..4-20mA Current Loop (25Ω)
- 53 VRMS(1MΩ)
- 54 mARMS
- 59 Custom (Factory#)

Notes:

1. Contact the Factory with your requirement for custom display or scales.
3. USB Option Plugs Into DB9 & Extends 1.25" From Rear of Instruments.
*Recommended for noisy environments
4. Customer to specify piping size, thread & location, otherwise, none will be provided.

5. Volt & Amps Ranges are Internal Jumper Range Selectable .5, 5, 10 & 50VDC, 1, 5, 20mADC. Shipped with .5V or 1mA Unless Specified.
6. Mixed Inputs (V&A, Temp & 4-20mA, Etc.) Available.
7. Specify Voltage input. Range option 36 is for use with 5A CT and 120VAC.
8. Specify Channel Input (1 or 2) To Display (Bar or Digital)
9. Specify Mil-Specs to Meet

MECHANICAL FOR ALL OTEK'S "SWITCHBOARD" STYLE METERS



Note:

1. Models HI-Q12X-X00-000-0X (X=any option) do not require piggy back module that plugs on J₁ connector from behind your panel, all others do.
2. J₁ connector and 3.375" studs spacing meet ANSI 39.1 standard for switch board meters. J1 falls within existing "Barrel" cutout.

REARVIEW

WITHOUT REAR MODULE
SEE NOTE 2

520-748-7900
 FAX: 520-790-2808
 E-MAIL: sales@otekcorp.com
 http://www.otekcorp.com



SINCE 1974

4016 E. TENNESSEE ST.
 TUCSON, AZ. 85714 U.S.A.

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 IN
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