

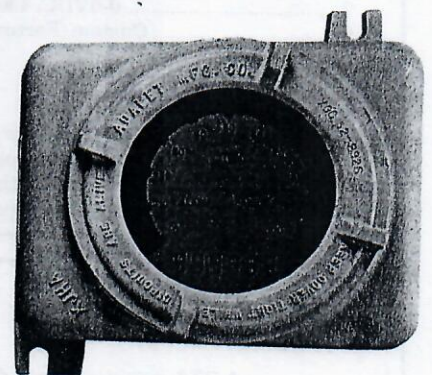
8" Intelligent Process Controlling Meter

**MODEL
HI-Q122**



70% Actual Size

The **HI-Q122** Intelligent Panel Meter is a combination bargraph and numeric display that can also be used as a process controller. Signal conditioning circuitry is present so that the controller can be interfaced to the majority of transducers and control equipment in common industrial use. A communications port is also provided to enable two-way digital communication between the meter and other devices that make up a facility's overall control architecture.



Explosion Proof

FEATURES:

- Giant 5"Ø Display w/41-Segment Bargraph
- Full 6 Digit Decimal Readout
- Isolated 4-20mA or 0-5VDC Outputs
- Isolated RS-232C/422/485 I/O
- Four SPDT Relay & Four Annunciators
- Isolated 16-Bit A/D w/Analog Multiplexer & Signal Conditioners
- Custom Scales/ LCDs
- High Contrast (Direct Drive) LCD
- Optional Backlight (EL)
- Standard 8"-Switchboard Case, Only 1" Deep

Fax-Back# (520) 748-1539 - - 0122

APPLICATIONS:

- Temperature Control
- Flow/Pressure Control
- Speed/Distance
- Serial Input Remote Display
- Process to Computer Interface
- Computer-to-Process Interface
- One or Two Process Variable Controller

For Complete Specifications,
See Pages C-F Except as Noted

OTEK™

ORDERING INFORMATION (11/97)

HI-QTBS (or) -- } 1 2 3 4 5 6 7 8
HI-Q123 (or) -- }
HI-Q124 (or) -- }

DISPLAY TYPE(1)

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

SERIAL COMMUNICATIONS

0 RS-232 C Only (2)
 1 Isol. RS-232C&485
 2 Isol. RS-232C&422
 9 Custom (Factory #)

POWER INPUTS

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

CONTROL OUTPUTS

0 None
 1 Relays
 2 Bi MOS
 9 Custom (Factory#)

ANALOG OUTPUTS

0 None
 1 4-20mA, 1 Each
 2 0-5VDC, 1 Each
 9 Custom (Factory#)

HOUSING & MOUNTING

0 Plastic & 3.375"
 1 Plastic & 90mm
 4 Explosion Proof (3)
 9 Custom (Factory #)

SIGNAL INPUTS

DIGITAL INPUTS (2 Inputs)

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

ANALOG INPUTS (1 Channel)(4)

10 ±0.5VDC (1MΩ)
 11 ±0.5ADC (0.1Ω)
 12 Current Loop (25Ω)
 14 0.5VRMS (1MΩ)
 15 0.5ARMS (0.1Ω)
 17 Strain-Gage (>200<400Ω)
 18 Strain-Gage (>1K<5KΩ)
 20 Resistance (50KΩ)
 21 Temperature RTD
 22 Temperature Thermocouple
 25 mVDC(1MΩ)
 29 Custom (Factory #)

ANALOG INPUTS (2 Channels)(4)

30 ±0.5VDC (1MΩ)
 31 ±0.5ADC (0.1Ω)
 32 Current Loop (25Ω)
 33 Watts DC (1M-0.1Ω)
 34 0.5Volts RMS (1MΩ)
 35 0.5AMPS RMS (0.1Ω)
 36 Watts RMS (1M-0.1Ω)
 37 Strain-Gage (>200<400Ω)
 38 Strain-Gage (>1K<5KΩ)
 40 Resistance (50KΩ)
 41 Temperature RTD
 42 Temperature TC
 47 mVDC (1MΩ)
 49 Custom (Factory #)

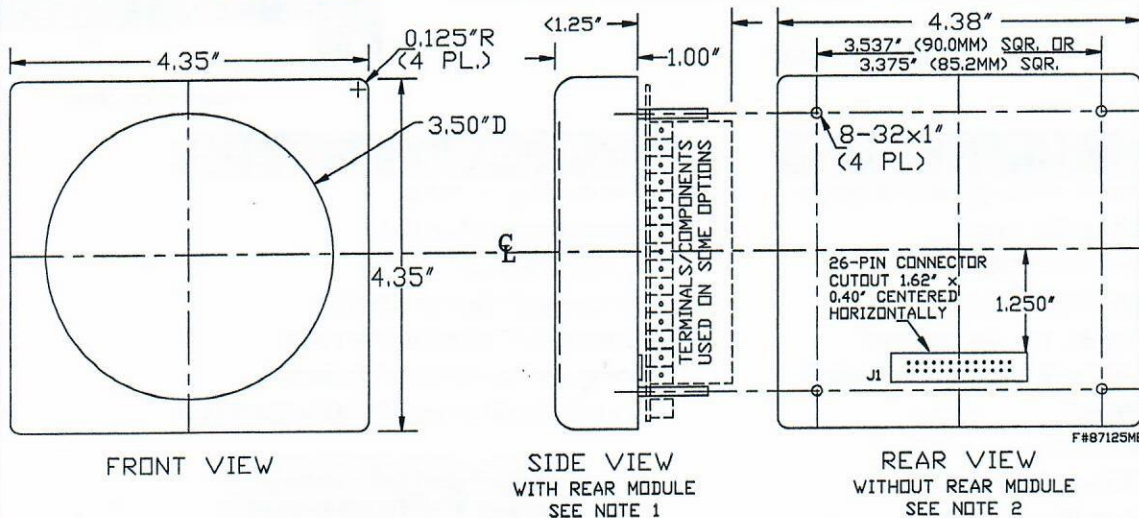
ANALOG INPUTS (3 Channels)(4)

50 ±0.5VDC (1MΩ)
 51 ±0.5ADC (0.1Ω)
 52 Current Loop (25Ω)
 54 0.5Volts RMS (1MΩ)
 55 0.5ARMS (0.1Ω)
 59 Custom (Factory#)

Note:

- Contact the Factory with your requirement for custom display or scales.
- RS-232C only (Option 0) is not isolated.
- Customer to specify piping size, thread & location, otherwise, none will be provided.
- Standard Full Scale for Volts & Amps is 0.5; For any other ranges, select options 29, 49 or 59 and specify next to part no.
- Specify Voltage input range option 56 is for use with 5A CT.

MECHANICAL FOR ALL OTEK'S "SWITCHBOARD" STYLE METERS



Note:

- 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.
- J₁ connector and 3.375" studs spacing meet ANSI 39.1 standard for switch board meters. J₁ falls within existing "Barrel" cutout.

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