

**REMOTE
DISPLAY**

**1 X 32 ALPHANUMERIC REMOTE DISPLAY
RS-232C/485, LCD (5 X 7) BACKLIT
METAL CASE**

**MODEL
HI-Q105**



DESCRIPTION: OTEK's New "HI-Q105"

Serial Input Remote Display consists of a high contrast LCD STN 1 LINE x 32 Characters (5 X 7 Pixels), giving complete alphanumeric representation (including oriental) of ASCII Data.

The "HI-Q105" was designed for harsh environments, such as Offshore Platforms, Commercial and Military Vessels and Factory Environments both Indoor & Outdoor.

The complete display is under the control of the serial input, including: Burst, Scroll, Wrap-around and Display Blank. The LED backlight illuminates the complete display without "Hot" or "Cold" spots and its brightness and on-off is externally controlled via a potentiometer. The "HI-Q105" has a **Lamp Test** function that allows for complete alphanumeric (A-Z, Signs & 0-9) display test to insure integrity.

Power Requirement is either 5VDC or 7-28VDC at 1 Watt (with backlight) or 0.1W (without Backlight). Connections are made through a DB15 Connector, and the "HI-Q105" can be either front or rear panel mounted.

APPLICATIONS: The HI-Q105 can be used as a Remote Display for PLC, DCS, SCADA or customized panels in Harsh Environments such as Shipboard, Outerspace, Military Transportation, Offshore Drilling, Agricultural, Road Construction Vehicles and Industrial.

MIL-SPEC: MIL-C-24308/4, MIL-STD-275, -454, -130, -129, MIL-C5541, MIL-I-46058, MIL-STD-167, -202, -883, -105 and others on request.

SPECIFICATIONS: (At 20°C & 5VDC)

Characters: 32
Character's Format: 5X7 Pixels
Character's Height 0.55" (14mm)
Backlight: Diffused LED Yellow
Backlight Power: 200mA @ 5VDC
Electronics Power: 20mA @ 5VDC
Voltage Input: .A: 5VDC \pm 5%; B: 7-28VDC
Serial Input: A: RS-232C; B: RS485
Characters Accepted: ASCII
Baud Rate: 4800-19,200 (Programmable)
Address: Programmable 00-255
Connector: DB15 (MIL-M24330/4-2)
Operating Temperature: -10 + 60°C
Storage Temperature: -20 + 70°C
Humidity: 5-95% RH N.C.
NEMA Rating: 3 (4X On Request)
MTBF (Calculated) 100,000 Hrs.

ORDERING INFORMATION (5/00)

HI-Q105 } - 1 2 3

INPUT TYPE:

0 RS-232C

1 RS-485

0 Custom

GRADE:

0 Industrial

9 To Mil-Spec

POWER INPUT:

0 5VDC

1 7-28VDC

9 Custom

MECHANICAL

HI-Q105 Panel cutout requirements.

Case side view

Panel mounting plate. →

Front →

→ Rear cover screws.

→ 0.50

→ 0.532

→ 1.250

Holes (4 plcs) 3/16"

→ 0.325

→ 7.00

→ 0.250

→ 1.00

→ 1.28

REV#	DATE	OTEK
A	05-01-00	4016 E. TENNESSEE ST. / TUCSON, AZ. 85714
TITLE HI-Q Panel cutout requirements.		
SCALE	100%	DWG# 90-1050
DATE	05-01-00	DWG# 90-1050

FORM #F-ENG-006 REV. B

