

# OPI-9X OPERATOR INTERFACE UNIT

## INSTRUCTION BOOK

INDUSTRIAL INDEXING SYSTEMS, Inc.

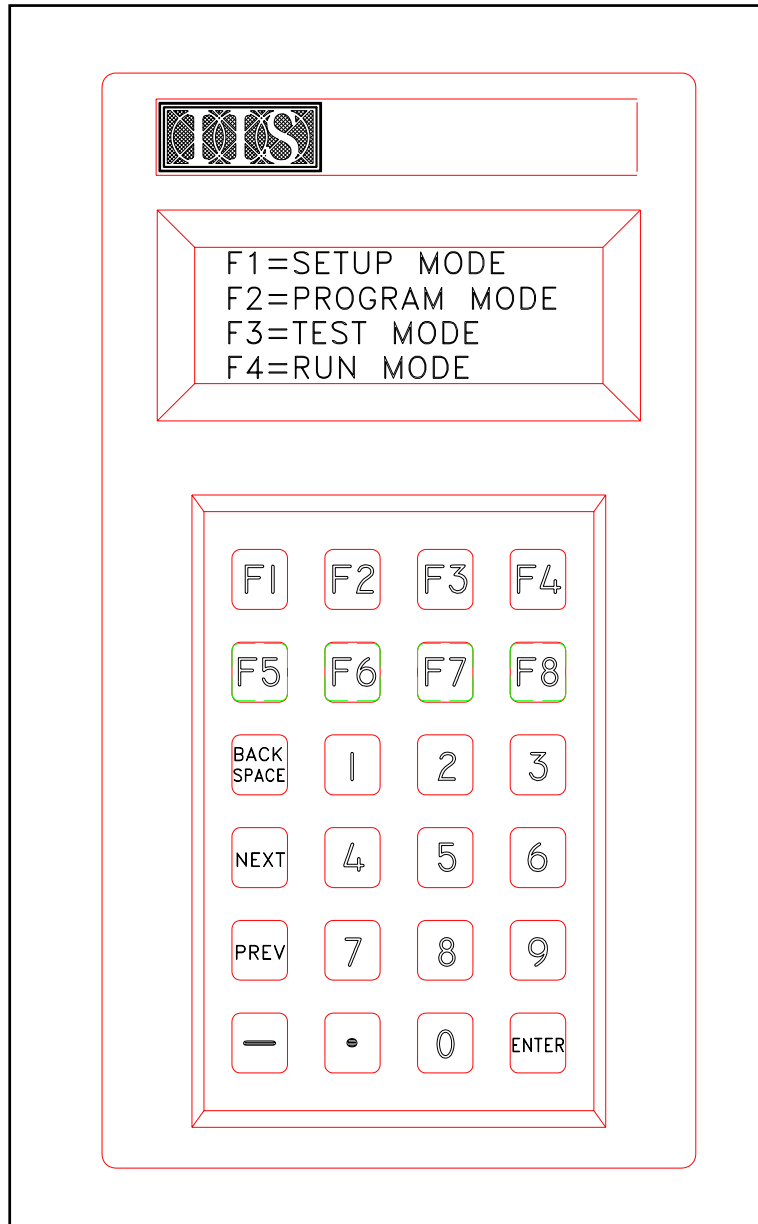
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## Introduction and Summary of Features



**Figure 1.1 - OPI-9X**

The OPI-9X is an easy to use and easy to program operator interface device consisting of a keypad and 16 character by 4 line display. The unit has a built-in command code set which allow the user to program menus, program messages, and easily control the cursor and display.

The Operator Interface keypad contains three groups of keys (refer to **Figure 1.1**):

1. The numeric keys ([0] - [9]), along with the decimal point key [.] and the negative key [-]. These keys are used to enter fixed parameter values.
2. The display control keys [BACK SPACE], [NEXT], [PREV], and [ENTER]. These keys alter the displayed screen in defined ways:
  - [BACK SPACE] causes the cursor to move back one space.
  - [NEXT] displays the next screen or an alternate parameter value.
  - [PREV] displays the previous screen or an alternate parameter value.
  - [ENTER] changes the value of the parameter and/or the display.
3. The function keys [F1], [F2], [F3], and [F4]. The functions of these keys are defined in the Operator Interface displays.

The Operator Interface display shows up to four lines of information. There are two symbols with specific meanings:

- \* The asterisk indicates that either a selection is possible using the [NEXT]/[PREV] keys, or that a continuation of the function is possible using the [ENTER] key.

[ ] The cursor prompts for parameter value entry.

This manual provides information about the hardware including specifications, mounting dimensions, power-on setup, default configuration and interconnection drawings.

**Table 1.1** summarizes the features of the OPI operator interface terminal:

<ul style="list-style-type: none"><li>○ Full function key menu selection.</li><li>○ Full numeric data entry editing.</li><li>○ Industrial panel mount.</li><li>○ 115 volt AC power input, no external power supplies needed.</li><li>○ Current loop serial interface for ground loop isolation.</li><li>○ LCD-backlight display for easy viewing.</li></ul>
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**Table 1.1**

## Section 1 - OPI-9X Hardware

### 1.1 OPI-9X Specifications

Note: All voltages are with respect to the ground line, and all temperatures are in degrees Celsius.

Supply voltage	115 VAC .1 Amp
Operating temperature range	0 to 50° C
Non-condensing humidity range, storage and operating	0 to 90%

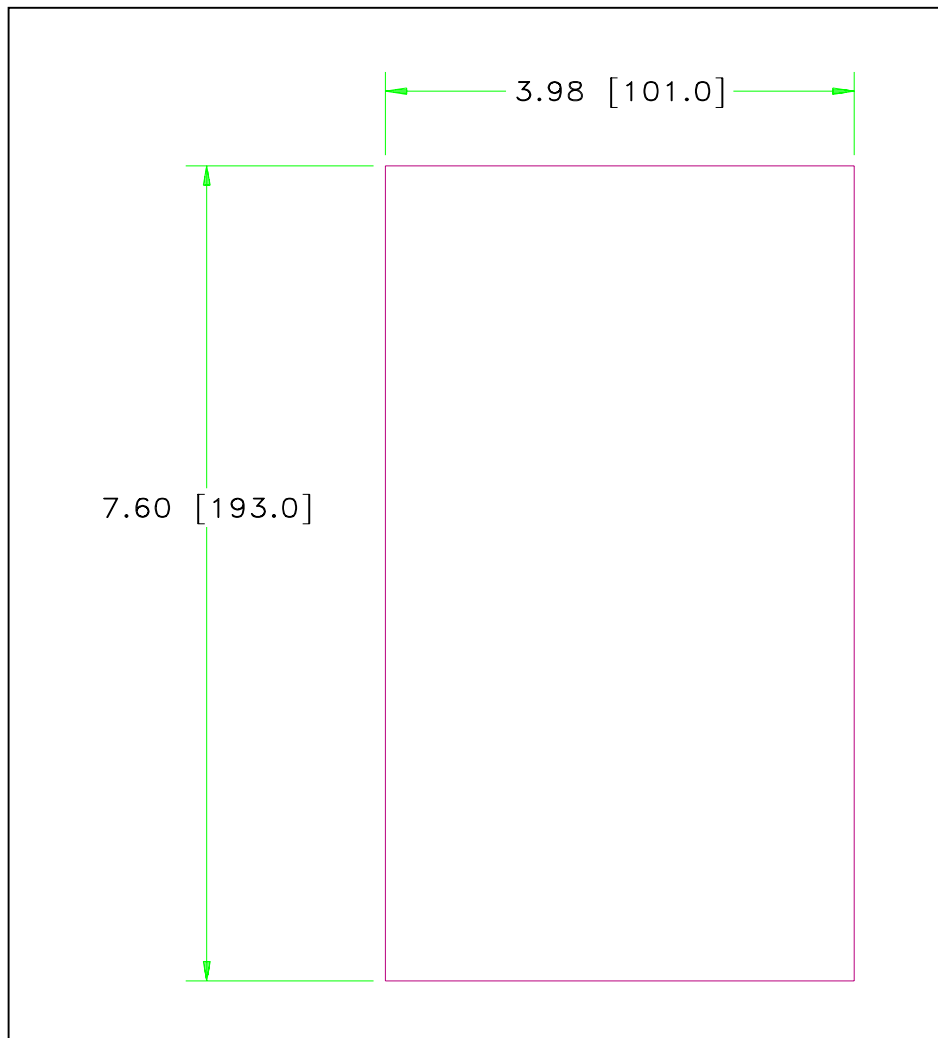


Figure 1.2 - OPI Panel Cutout

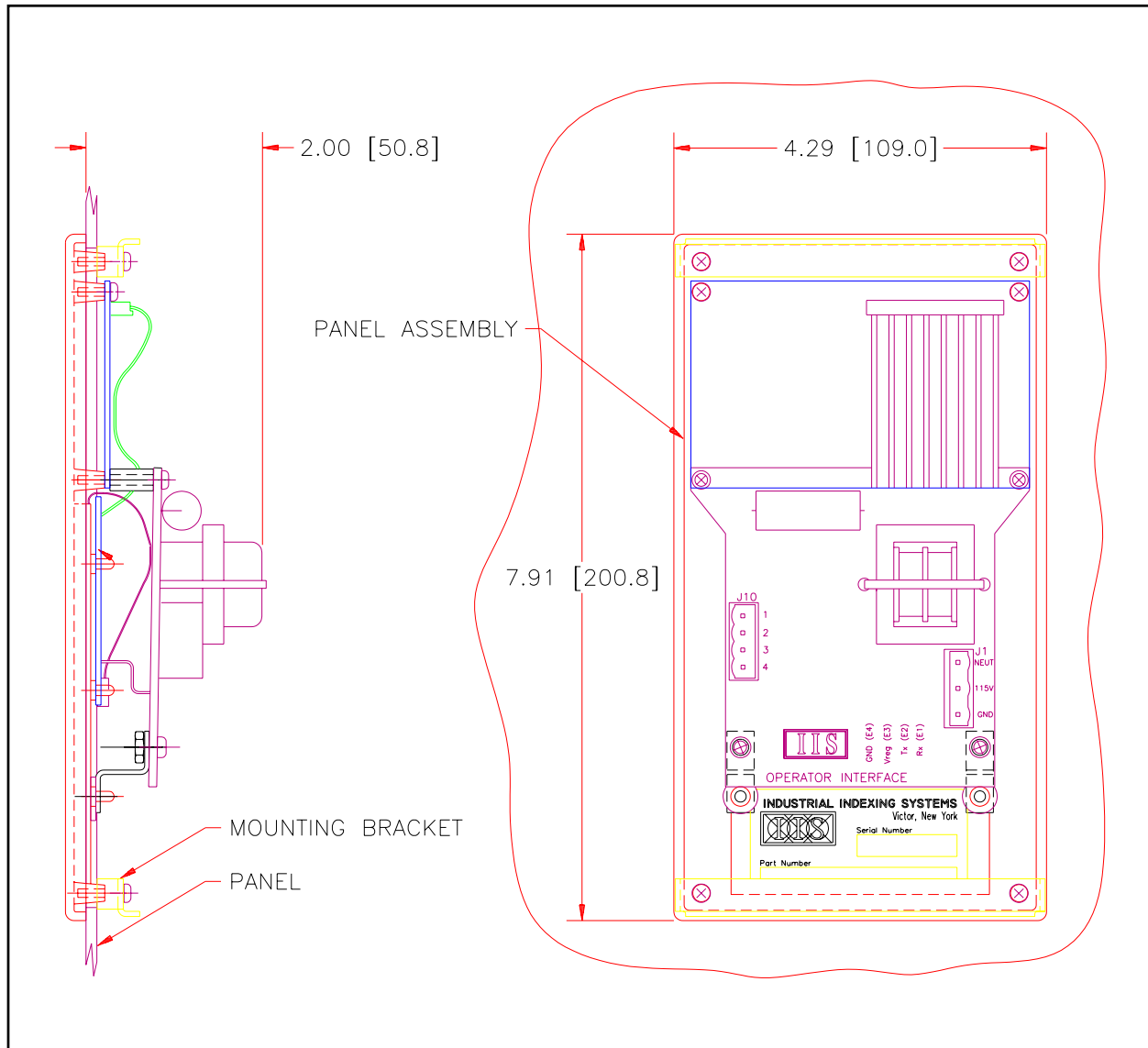


Figure 1.3 - OPI Assembly

## 1.2 Power-on Setup

The Power-on Setup procedure is used to configure the baud rate, data format and display contrast of the OPI-9X. Three keys are used to do this configuration '1', '2' and '3'.

To perform the Power-on Setup follow these steps:

1. Disconnect the power from the OPI-9X.
2. Hold down any key and apply power to the OPI-9X.
3. The version of software in the OPI-9X will be displayed for a few seconds after which the contrast can be adjusted.
4. Set the desired contrast the '1' and '2' keys. Press '3' when the display is at the desired contrast press '3'.
5. Set the baud rate using the '1' and '2' keys. Press '3' when the desired baud rate is displayed.
6. Set the desired format using the '1' and '2' keys. When the desired format is displayed press '3'.

## 1.3 Default Configuration

The default configuration of the OPI-X is as follows:

- operates at 9600 baud, 8 data bits, 1 stop bit, no parity
- contrast is set to optimal for a 90° viewing angle



## 1.4 Interconnect

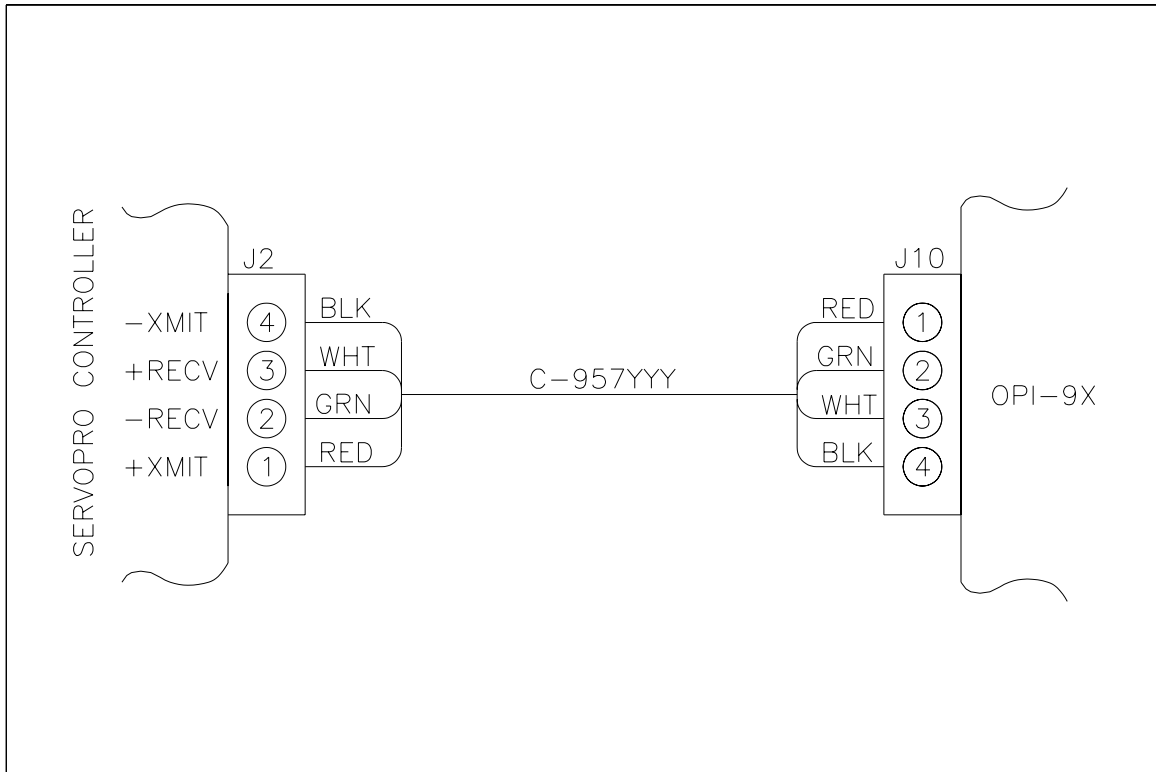


Figure 1.4 - ServoPro to OPI-9X Interconnection

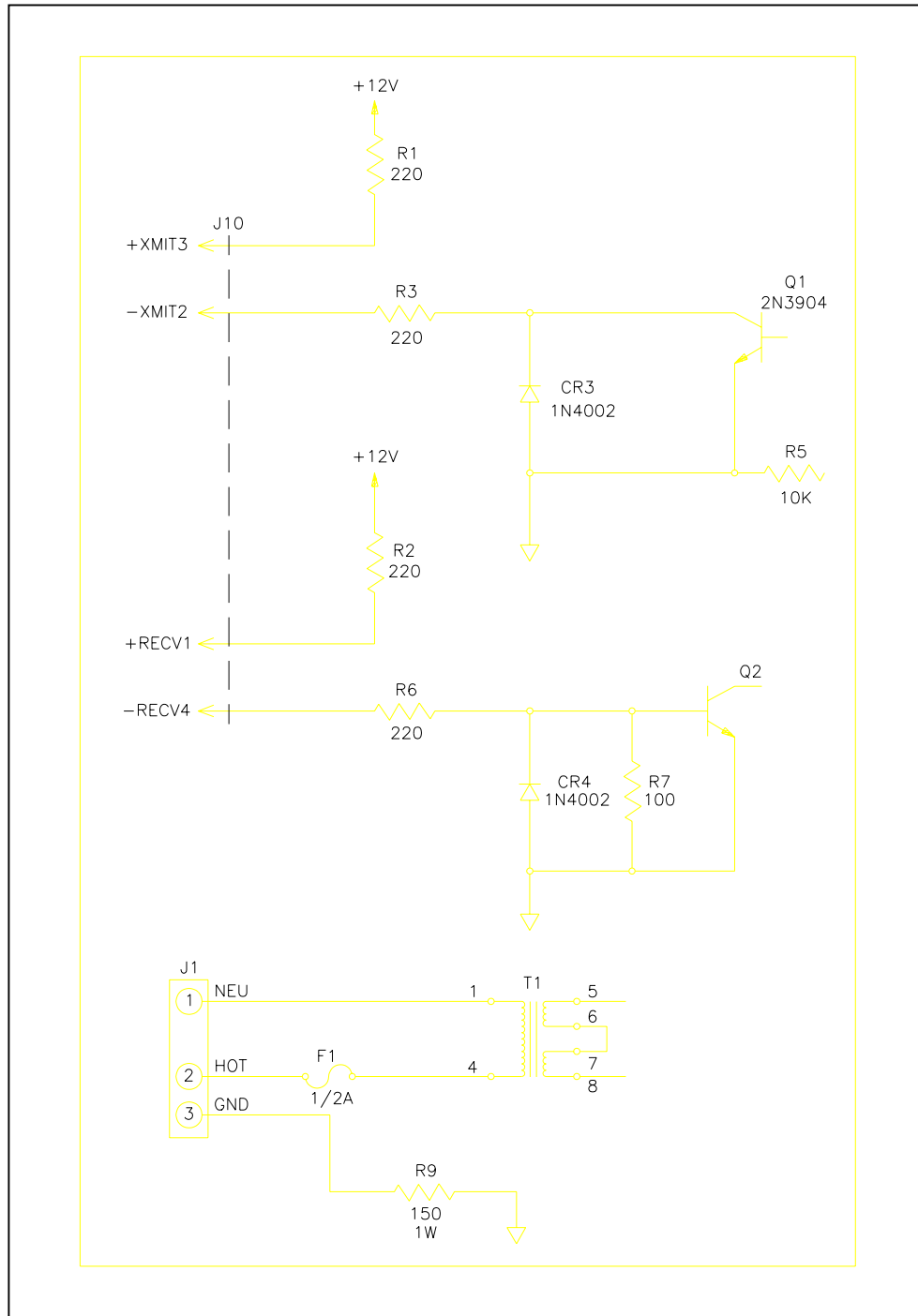
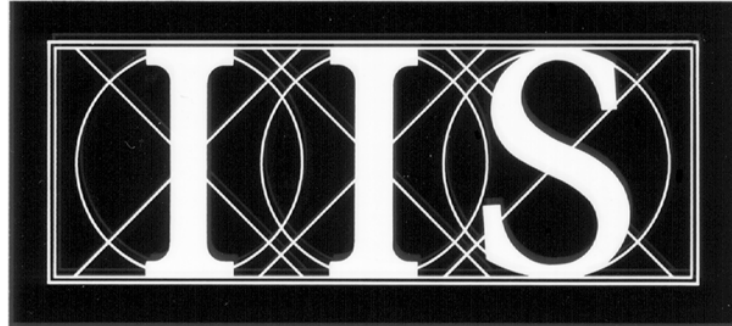


Figure 1.5 - CTL-70 Connection Schematic



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