

SECTION 40 94 33

OPERATOR INTERFACE TERMINALS

PART 1 - GENERAL

1.1 DESCRIPTION

A. Work included

1. Furnish and install Operator Interface Terminalss (OIT)

B. Related sections:

1. Section 40 05 00 – Common Work Results for Process Integration
2. Section 40 80 00 – Commissioning of Process Systems
3. Section 40 95 13 - Process Control Panels and Hardware
4. Section 40 94 43 – Programmable Logic Process Controllers

1.2 SUBMITTALS

A. Submittals shall be made in accordance with Section 01 33 00 Submittal Procedures and Section 40 90 00 Instrumentation and Control for Process Systems.

B. In addition to the requirements of Section 01 33 00, the Contractor shall furnish submittals for approval as outlined below:

1. Product data.

1.3 DELIVERY, STORAGE AND HANDLING

A. Operator Interface Units shall be fully installed in the control panel prior to shipping to the site from the factory.

1.4 REFERENCES

A. Applicable codes and standards: design, fabricate, assemble, and test equipment so that upon installation and operation in accordance with manufacturer's recommended procedures for this application the equipment will conform with all applicable codes and standards. The date of issue or version shall be the current version at time of bid.

1. NFPA Standard 70 National Electrical Code
2. IEEE Standard 472 Electrical Surge Protection

3. EIA Standard RS-232-C Interface between data terminal equipment and data communication equipment employing serial binary data interchange
4. NEMA ICS6 Enclosures for Industrial Controls and Systems

1.5 JOB CONDITIONS

A. Environmental

1. Ambient temperature range: 0 to +47 degrees Celsius.
2. Ambient humidity range: 5 percent - 95 percent RH non-condensing
3. Atmosphere: No corrosive gases

PART 2 - PRODUCTS

2.1 OPERATOR INTERFACE TERMINAL (OIT)

A. The OIT shall have the following features and characteristics:

1. Shall include any runtime software and licenses necessary to implement the design included in these specifications and drawings.
2. Shall include a licensed development package. The PanelView Plus product line is exempt from this requirement.
3. Displays Supported: 25 Displays.
4. Tag Count: 100 tags.
5. Alarm Messages: Minimum of 200 alarm messages.
6. Display Size: 10.4 inches.
7. Display Type: Color Active Matrix, TFT 18 bit color touch screen.
8. Network Communications: Ethernet, RS-232, USB.
9. Protocols Supported: Modbus RTU.
10. Data Log Capabilities: Support 300,000 data records.
11. Operating Temperature: 0 to 50 degree Celsius.
12. NEMA 4 enclosure.
13. Power: 18 to 30 Vdc.

14. Acceptable products:

- a. Allen-Bradley PanelView Plus Compact Catalog No.2711PC-T10C4D1. Development software not necessary.
- b. Advantech's Powered by Wonderware Operator Panel C-TPC1070H-PBW01.
- c. Or equal as approved by the Engineer.

PART 3 - EXECUTION

3.1 FACTORY QUALITY CONTROL

A. General:

1. Process Control System Supplier service personnel shall perform all factory tests, inspections, and adjustments as specified in section 40 80 00.

END OF SECTION