

**Service Information System**

Shutdown SIS

[Previous Screen](#)

◀ Product: MARINE ENGINE
Model: C280-16 MARINE ENGINE TDX
Configuration: C280-16 MARINE TDX00001-UP

Systems Operation**3606, 3608, 3612, 3616 and 3618 Engines and C280-12, C280-16, C280-6 and C280-8****Marine Engines Panel View Monitor**

Media Number -REN2495-01

Publication Date -01/04/2007

Date Updated -12/04/2007

i01772826

Connections

SMCS - 7490

DC Power Connections

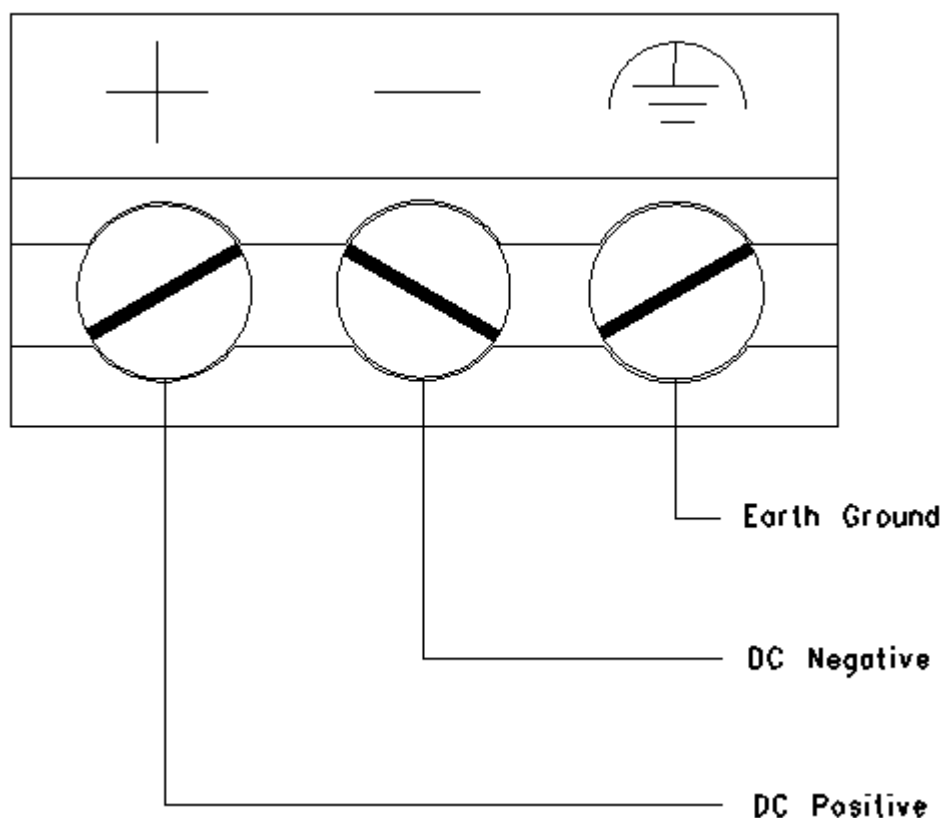


Illustration 1

g00906422

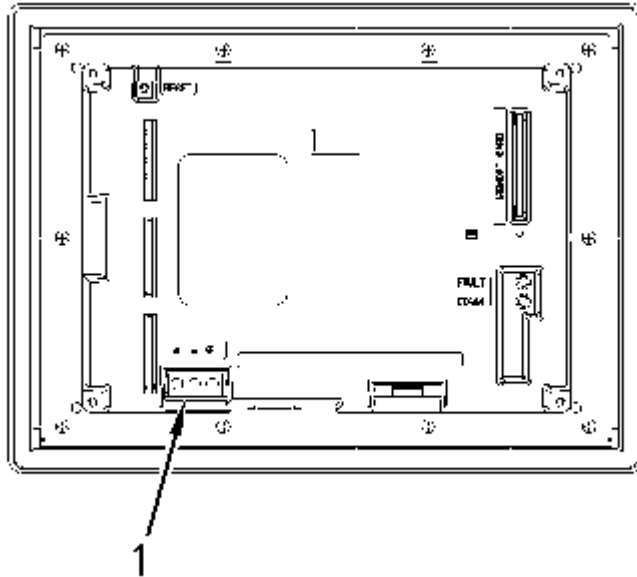


Illustration 2

g00906513

(1) Power Terminal Location

Connect the power source to the terminal block at the back of the Panelview 1000. See figures 1 and 2.

Table 1

Model	Supply Voltage	Power Consumption
PV1000G	18 to 32 DCV	40 Watts maximum (1.7 A at 24 DCV)
PV1000C	18 to 32 DCV	50 Watts maximum (2.1 A at 24 DCV)

Table 1 shows the electrical ratings for the DC versions of the Panelview 1000 terminals. Electronic circuitry and an internal fuse protect the terminals from reverse polarity and overvoltage conditions.

Note: The input power should be protected by a fuse or a circuit breaker that is rated at no more than 15 amperes.

Note: The incoming power to the Panelview 1000 should be routed by a separate path from the communication cables. If the power lines cross the communication lines, the lines must cross at right angles. Communication lines can be installed in the same conduit as low level DC power lines (less than 10 volts).

DH+ Terminal Connections

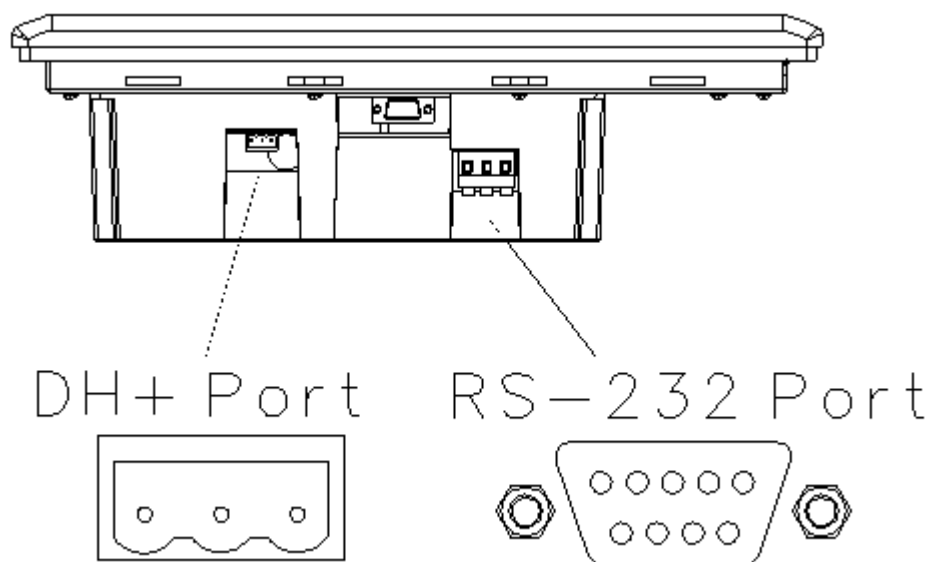


Illustration 3

g00911849

The DH+ versions of the Panelview terminals have a DH+ port and an RS-232 port. See illustration 3.

Use the DH+ port in order to do the following communications:

- Communicate with a PLC-5 controller on the Allen-Bradley DH+ link via the processor's DH+ port.
- Communicate with an SLC 5/04 controller on the Allen-Bradley DH+ link via the processors DH+ port.
- Communicate with a ControlLogix controller on the Allen-Bradley DH+ link via the 1756-DHRIO module.
- Transfer applications over the DH+ link from a computer with a DH+ connection.

Making DH+ Connections

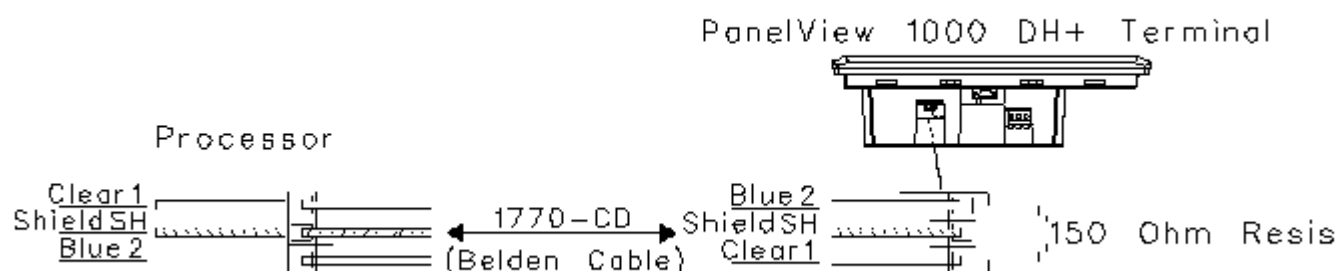


Illustration 4

g009

Use a Belden 9463 twin axial cable (1770-CD) in order to connect a DH+ Panelview terminal to the DH+ link. See illustration 4.

The DH+ link can be connected in the following two ways:

- trunk line/drop line
- daisy chain

Use the following guidelines when installing the DH+ communication links:

- Do not exceed 3048 m (10000 ft) of cable for a trunk line connection.
- Do not exceed 30.4 m (100 ft) of cable for a drop line connection.
- Do not connect more than 64 stations on a single DH+ link.

DF1 Terminal Connections

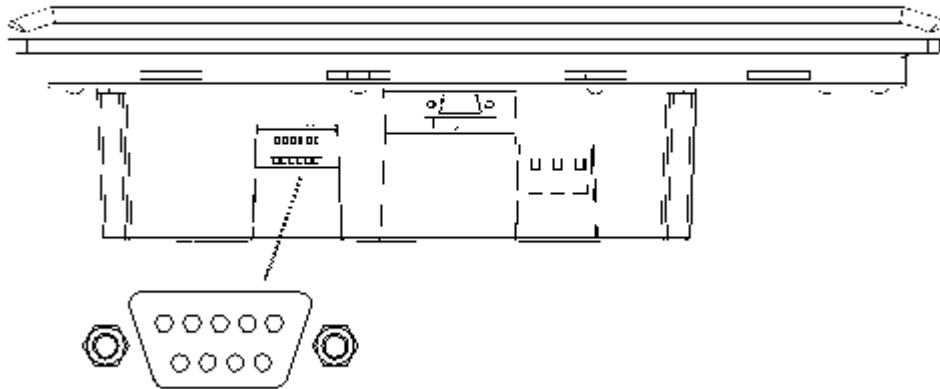


Illustration 5

g00911983

The DF1 Panelview terminals have a single RS-232 communications port supporting DF1 communications. See illustration 5.

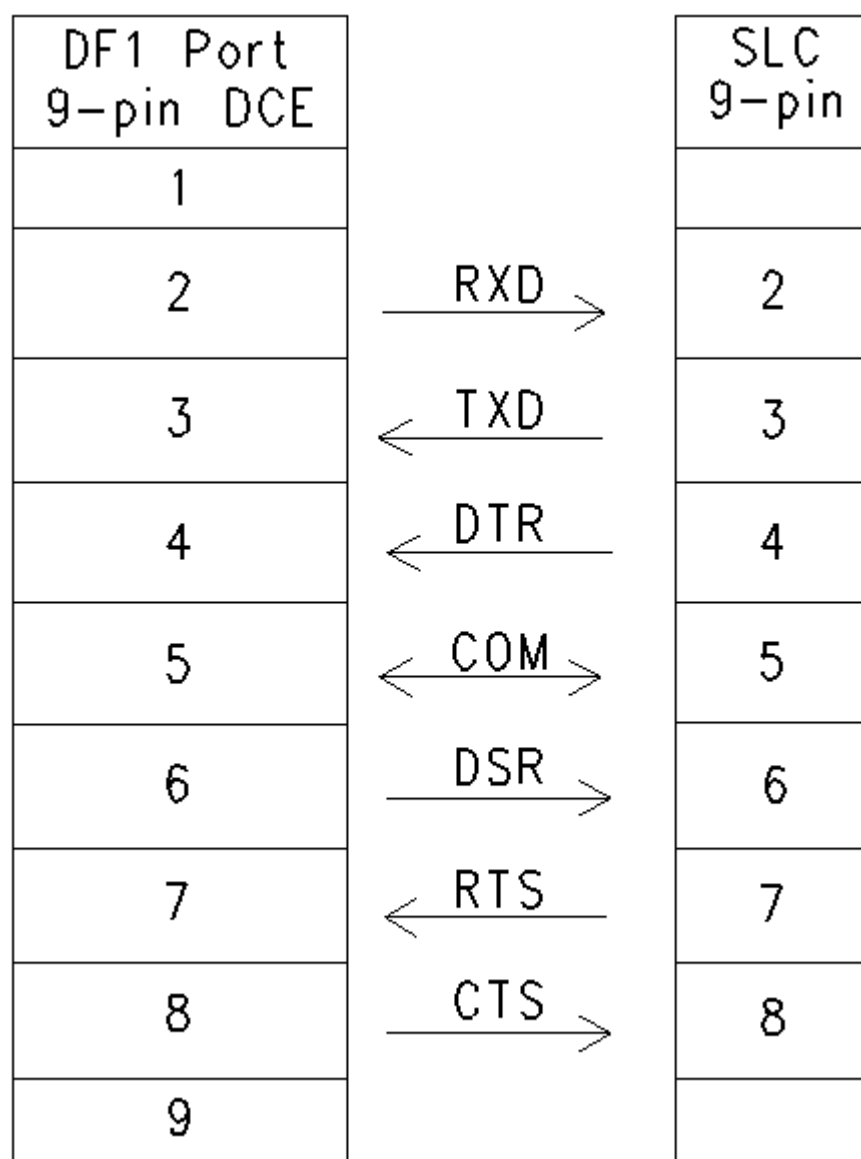


Illustration 6

g00912098

The DF1 port on the Panelview terminal is a 9-pin, male, RS-232 connector. Illustration 6 shows the pinout descriptions for the port and how these pins map to the DF1 ports on the controllers.

The maximum cable length for DF1 communications is 15.24 m (50 ft)

Ethernet Connections

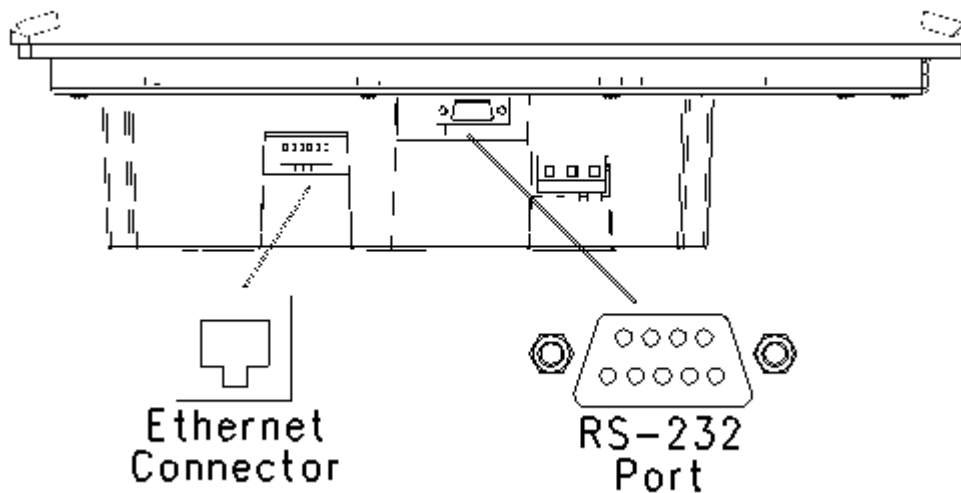


Illustration 7

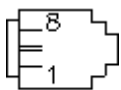
g00939939

The EtherNet/IP Panelview terminal can operate on an EtherNet TCP/IP network with the following devices:

- Another EtherNet/IP Panelview terminal
- Any device that can process CIP messages

The EtherNet/IP version of the Panelview terminal has an Ethernet RJ45 communications port and an RS-232 serial port.

- Use the RJ45 port in order to communicate with a logic controller on an EtherNet/IP network and use the RJ45 port in order to transfer applications over an EtherNet/IP network.
- Use the RS-232 serial port in order to transfer applications between a computer and the Panelview terminal by using a direct connection. The RS-232 serial port can also be used to connect a printer to the Panelview terminal.



The Ethernet connector is an RJ45, 10/100Base-T connector. The pinout for the connector is shown in the following table:

Table 2

Pin	Pin Name

1	TD+
2	TD-
3	RD+
4	NC
5	NC
6	RD-
7	NC
8	NC

Use the following information in order to determine whether to use a straight-through or a cross-over pin-out.

- Direct point-to-point 10/100Base-T cables, with cross-over pin-out (1-3, 2-6, 3-1, 6-2), connect the Panelview ethernet port directly to another SLC 5/05 ethernet port or a computer 10/100Base-T port.

Use category 5 shielded and unshielded twisted-pair cables with RJ45 connectors. The maximum cable length is 100 m (328 ft). In industrial applications, keep the cable length to a minimum.

The following illustration shows an ethernet Panelview terminal that is connected to an Ethernet/IP network.



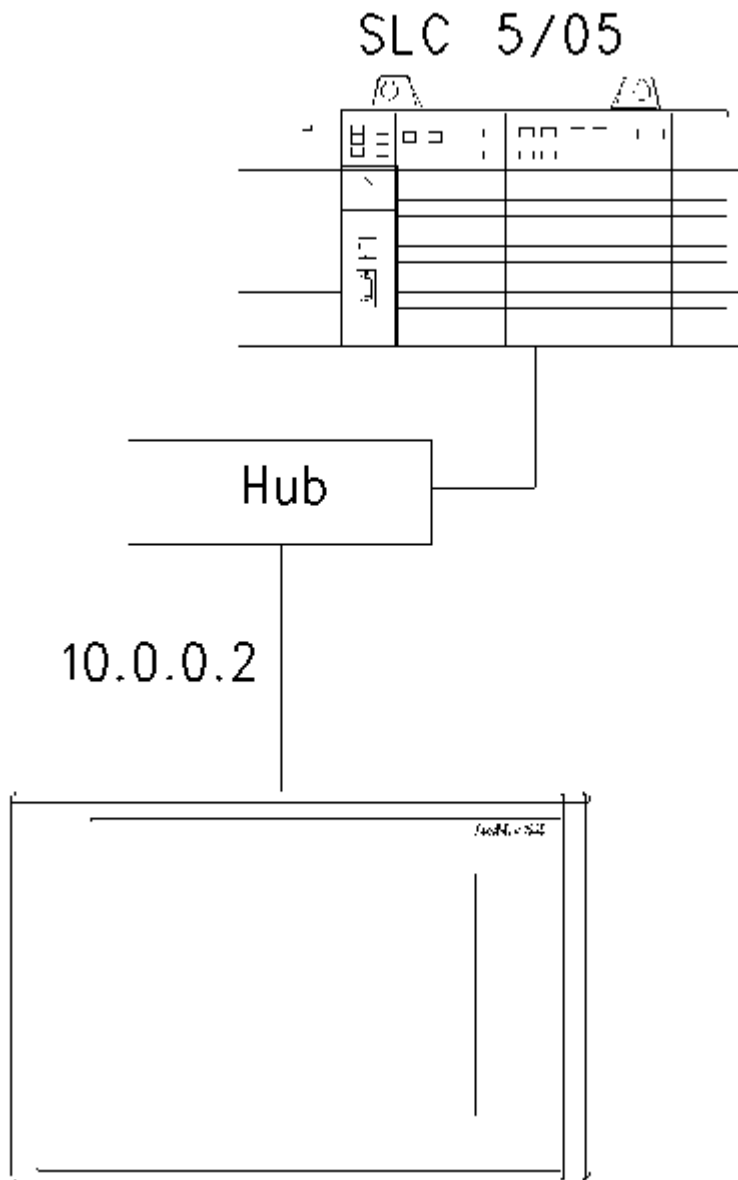


Illustration 8

g00940078