comnet
Communication Networks

INSTALLATION AND OPERATION MANUAL

FVT/FVR10D1A2C1

10-BIT DIGITALLY ENCODED VIDEO TRANSMITTER WITH 1 BI-DIRECTIONAL DATA CHANNEL, 2 24-BIT AUDIO CHANNELS AND 1 BI-DIRECTIONAL CONTACT CLOSURE

The FVT/FVR10D1A2C1 is a single channel 10-bit video transmission system along with one channel of bi-directional data, two channels of bi-directional audio and one bidirectional contact.

The data channel is configured using a two position switch to operate as RS232, RS422 or RS485, either two (2) wire or four (4) wire. See **Figure 4** on **Page 3** for details.

The video channel also supports “up-the-coax” reverse data that is enabled automatically.

The FVT/FVR10D1A2C1 may be directly plugged into the ComNet Rack (Part #C1) or operated as a standalone module powered by the PS-9VDC power supply also provided with the module. See **Page 5** for mounting instructions.

The FVT/FVR10D1A2C1 requires one optical fiber and may be supplied in a multimode (M) or single mode (S) version.

See **Figures 1 – 7** for complete installation details.

FIGURE 1 – FVT/FVR10D1A2C1 TRANSMITTER AND RECEIVER

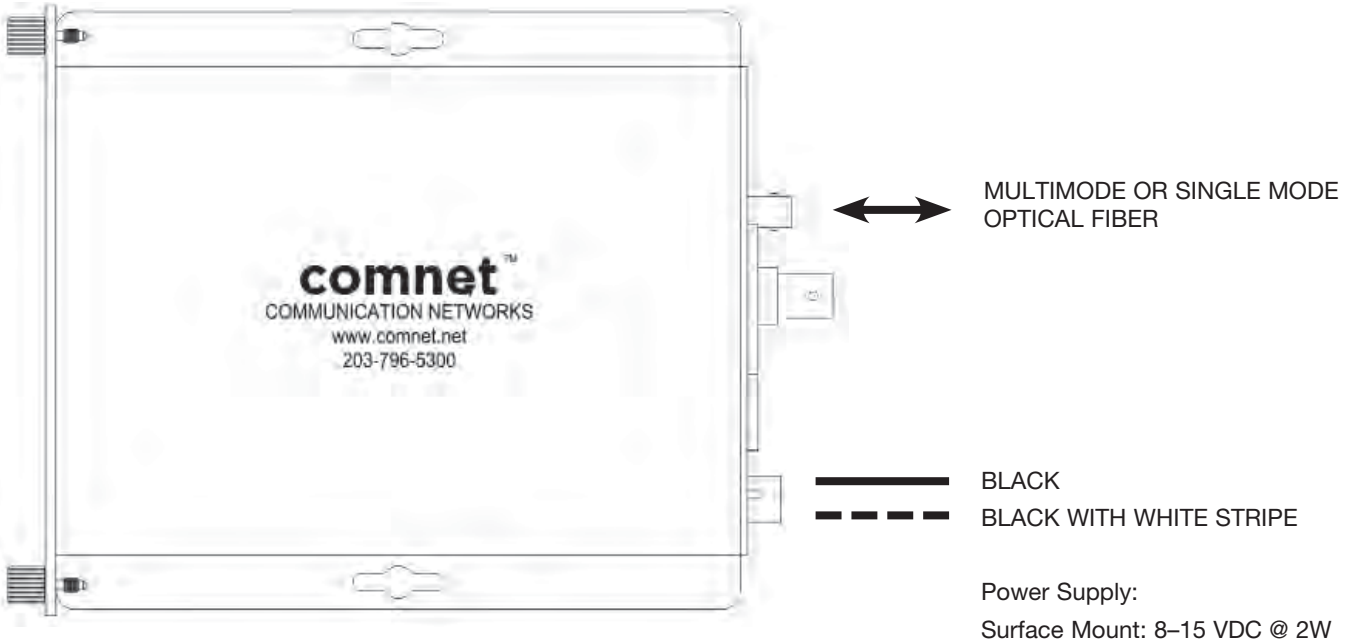


FIGURE 2 – FVT10D1A2C1 TRANSMITTER

FRONT PANEL

REAR PANEL

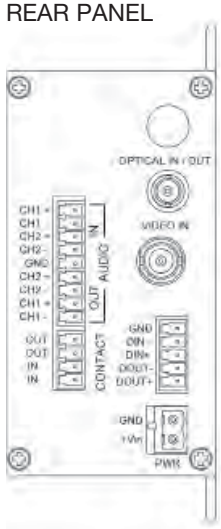
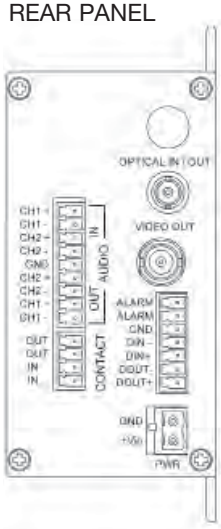


FIGURE 3 – FVR10D1A2C1 RECEIVER

FRONT PANEL

REAR PANEL



NOTE: Remove Electrical Connector for Rack Mount Units

FIGURE 4 – SWITCH POSITIONS

The mode for each data channel is configured using a set of two switches on the front panel of the unit.

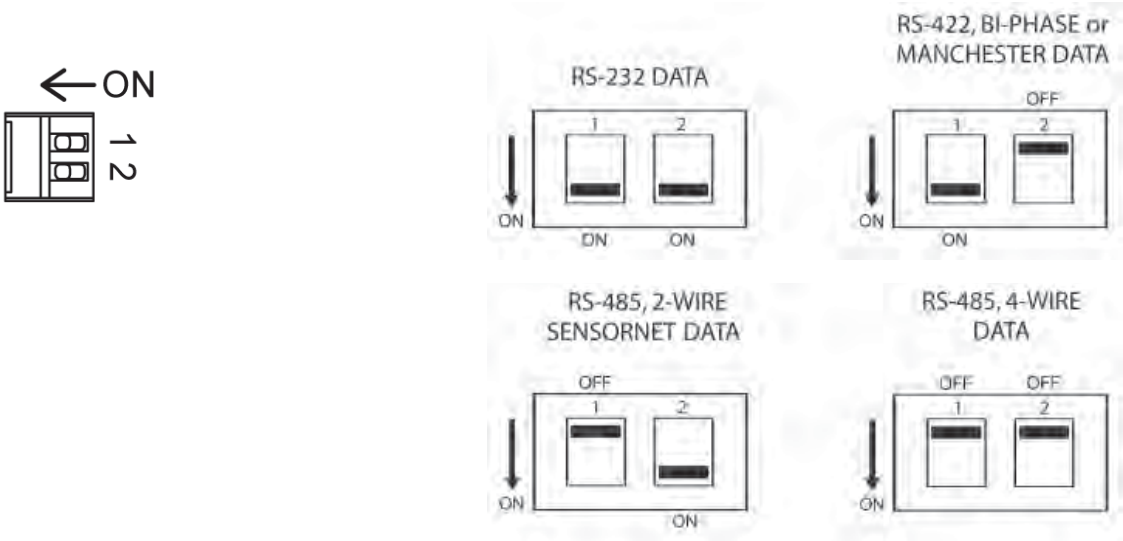


FIGURE 5 – DATA CONNECTIONS

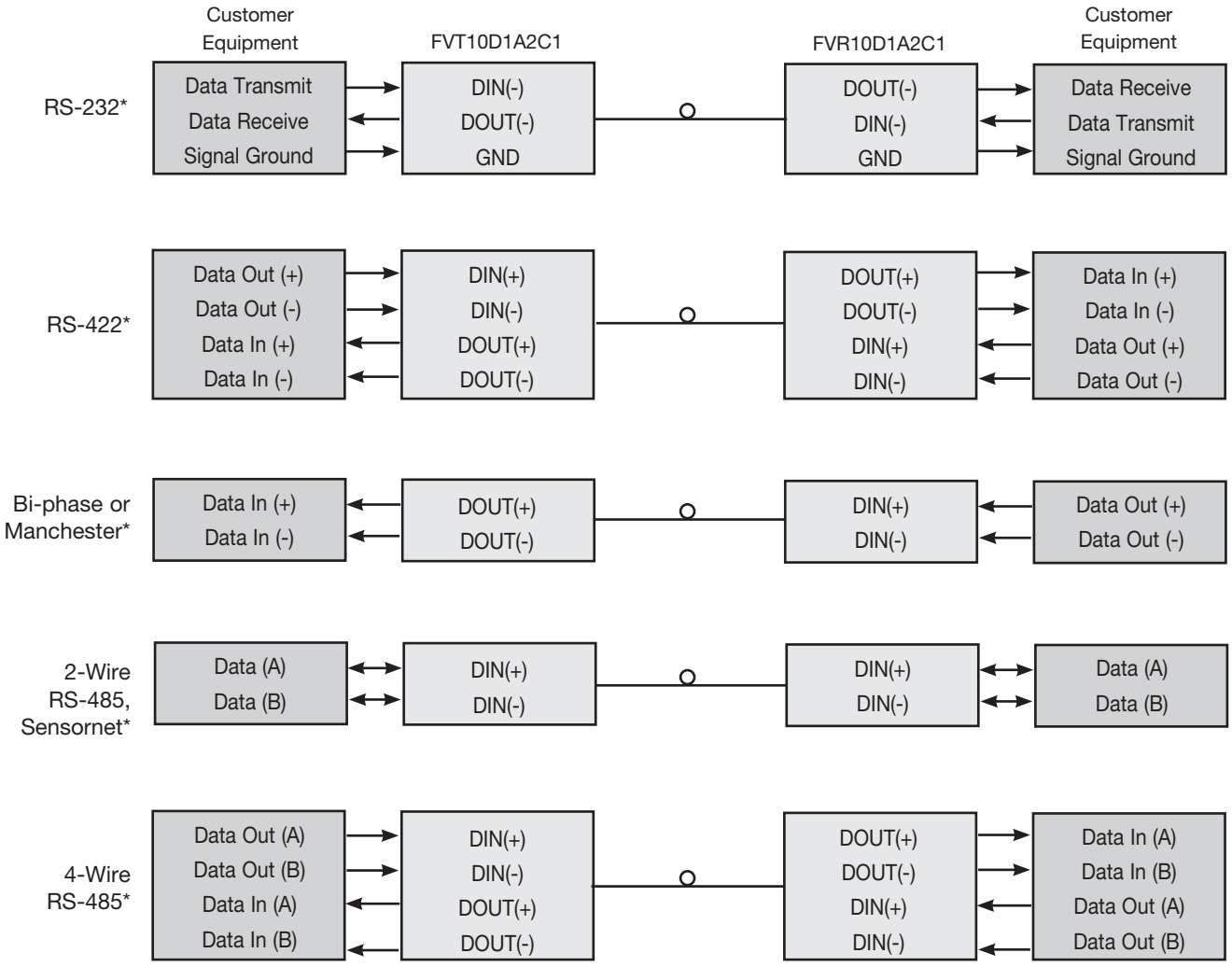
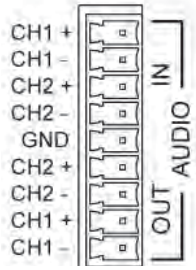
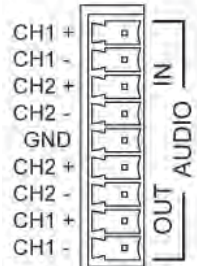


FIGURE 6 – CONNECTORS

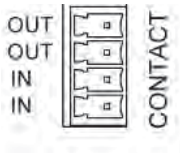
AUDIO TRANSMITTER



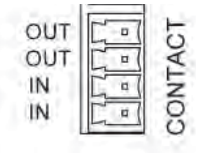
AUDIO RECEIVER



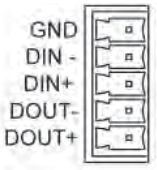
CONTACT CLOSURE



CONTACT CLOSURE



DATA



DATA/ALARM

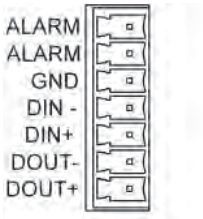


FIGURE 7 – LED INDICATORS

	FIBER	VIDEO	DATA	AUDIO	CONTACT	ALARM	POWER
GREEN	Communication link has been established over optical fiber	An active video signal is present on the BNC connector.	An active data signal is present on the input pins of the data connector.	(Solid or Blinking) An active audio signal is present	Closed	Open – No Link	Unit powered up
RED	Communication link has not been established	No video signal	–	–	–	Error Condition	–
OFF	Not powered up correctly	–	No data signal	No audio signal	Open	Closed – Link	Unit powered down

MECHANICAL INSTALLATION INSTRUCTIONS

INSTALLATION CONSIDERATIONS

This fiber-optic link is supplied as a Standalone/Rack module. Units should be installed in dry locations protected from extremes of temperature and humidity.

C1-US, C1-EU, C1-AU OR C1-CH CARD CAGE RACKS

CAUTION: Although the units are hot-swappable and may be installed without turning power off to the rack, ComNet recommends that the power supply be turned off and that the rack power supply is disconnected from any power source. **Note:** Remove electrical connector before installing in card cage rack.

1. Make sure that the card is oriented right side up, and slide it into the card guides in the rack until the edge connector at the back of the card seats in the corresponding slot in the rack's connector panel. Seating may require thumb pressure on the top and bottom of the card's front panel.

CAUTION: Take care not to press on any of the LEDs.

2. Tighten the two thumb screws on the card until the front panel of the card is seated against the front of the rack.

WARNING: Unit is to be used with a Listed Class 2 or LPS power supply rated 9-12 VDC @ 1A.

IMPORTANT SAFEGUARDS:

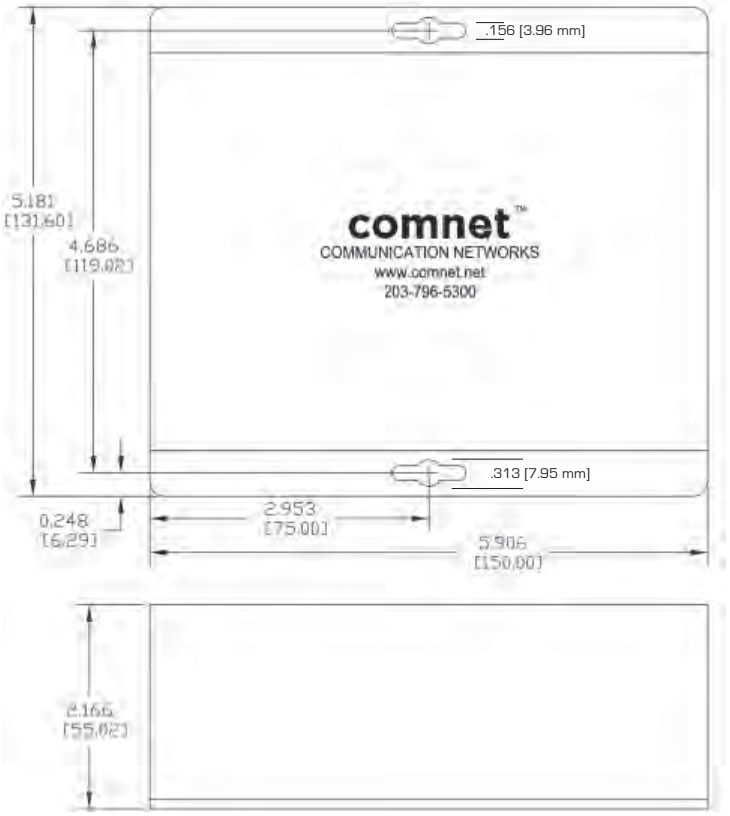
A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (Tma) specified by the manufacturer.

B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

MADE IN THE USA

FIGURE A

Dimensions are for a standard ComNet™ two slot module



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