

Application Note

AN_0028

Video/Data Transmission Guidelines

<u>Video</u>

1. 75? coaxial cable

RG59/U
 RG6/U
 RG11/U
 RG59/U
 RG6/U
 RG11/U
 RG11/U

5. 1 Vpp, neg sync, 2:1 interlace

6. United States format: EIA RS-170 (B&W)

NTSC (Color) 4.2 MHz bandwidth 525 lines/frame 60 fields/sec

3.58 MHz color burst

7. European format: CCIR (B&W)

PAL (Color) 5.0 MHz B/W 625 lines/frame 50 fields/sec

4.43 MHz color burst

RS-232

- 1. 3-wire, shielded, 18 AWG (Belden 8770 or equivalent)
- 2. 1,000 ft (300 meters) max hardwire at 1200 baud (>1,000 ft or baud rates >1200 requires line drivers or short/long haul modems)
- 3. Asynchronous, unbalanced, 300, 1200, 4800, or 9600 baud communication with 8 data bits, 1 stop bit, and no parity
- 4. AD1676B keyboard is simplex (Transmit and Ground, 1200 baud only)
- 5. AD2078A, AD2079, and ADTT keyboards are duplex (Receive, Transmit, and Ground)

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Sensormatic Technical Services

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01/02 RevB



Manchester

- 1. Twisted, shielded pair, 18 AWG (Belden 8760 or equivalent)
- 2. 5,000 ft (1,500 meters) maximum
- 3. Asynchronous, 31 KHz, 1 Vpp, NRZ data with continuous clock signal
- 4. 120? terminated, balanced, AC coupled
- 5. 3 daisy chained units maximum on any one control line

High Speed Data

- 1. Treat similar to video for transmission (75? coax)
- 2. 125 Kbaud, 1 Vpp, (+0.5V to -0.5V)
- 3. Do not clamp to ground (Use with AD1422CS621 for fiber that clamps to ground)

Sensormatic RS-422

- 1. Two twisted, shielded pair, 22 AWG (Belden 9406)
- 2. 3,000 ft maximum (915 meters)
- 3. Asynchronous, balanced, differential, duplex, 4800 baud
- 4. 10 daisy chained units on any one control line

SensorNet 485

- 1. One twisted, unshielded pair, 22 AWG (Belden 8442 (88442 for plenum) or equivalent)
- 2. 3,300 ft maximum (1 Kilometer)
- 3. 120? terminated, balanced, differential, AC coupled, half-duplex, 230 Kbps
- 4. 32 daisy chained units on any one control line (4 branches with 8 units each acceptable)

Alternate Cable for SensorNet 485

- 1. One twisted, shielded pair, 18 AWG (Belden 8760 or equivalent)
- 2. 2,500 ft maximum (750 meters)
- 3. 32 daisy chained units on any one control line (4 branches with 8 units each acceptable)

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