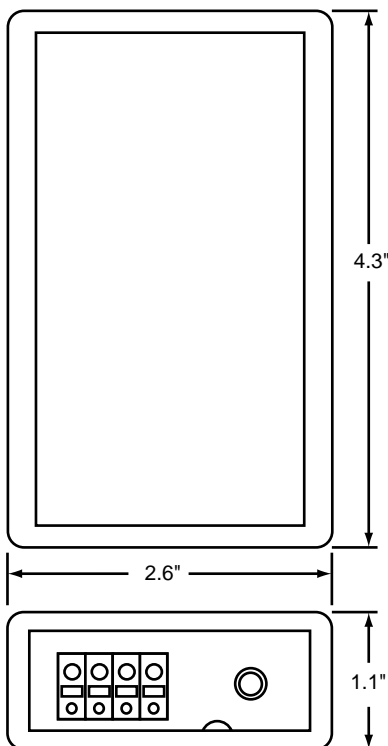


PRODUCT SPECIFICATION

DOCUMENT NUMBER DL2105	MODEL DL2105 RS232 Extender System for transmission up to 12,000 feet (1.9Km)
REVISION NUMBER 020503	

DL2105



Description

The DL2105 system provides data transmission for RS232 signals at rates up to 64K Baud for distances up to 12,000 feet (1.9Km).

The DL2105 is designed for operation over Category 2, 3, 4 or 5 unshielded twisted pair (UTP) cables and standard 24 AWG telephone pairs. With this system it is unnecessary to use 18 AWG shielded pairs. The system works equally well over existing communication cables, computer network spare pairs or new cable installations. A highly balanced output design assures that the system will not interfere with other equipment on the network. The DL2105 units are designed for easy connection to standard security equipment, including keyboards, matrixes, PTZ systems, access control systems, CPU units, etc.

The DL2105 is a two unit system that connects using twisted pair from transmitter to receiver to extend RS232 up to 12,000 feet. All connections are via a screwless terminal block that accepts wire sizes from 14 AWG to 26 AWG. The system works with all Baud rates up to 64K. It is possible to daisy-chain up to 24 receiver units (extra receivers must be ordered separately) from a single transmitter.

The system includes a transmitter, receiver and power supplies. Some of the typical applications include remote keyboard control of multiplexers and matrix systems and use in access control systems.

Features

- EIA RS232 standard inputs and outputs
- Data speeds of 64K Baud
- Built-in surge suppression
- Balanced communication output can be run in the same cable with telephone, video and other computer signals
- Screwless terminal blocks allow easy connection to any wire type from 14 AWG to 26 AWG

Applications

Keyboards - extends keyboards for matrix and multiplexer control

Access Control Systems - between buildings and around campuses or remote gates

Pan and Tilt Systems - extends control signals to 12,000 ft for RS232 equipment

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TECHNICAL SPECIFICATION

DL2105 RS232 Extender System

The DL2105 system consists of a transmitter unit and receiver unit. The information listed below is for the system, except when noted.

Size	1.1"H x 2.6"W x 4.3"D (each unit, transmitter and receiver)
Power Requirements	14-18 VDC @ 100mA (transmitter) 14-18 VDC @ 60mA (receiver) wall transformers are provided for each
Signal Standard	All RS232 signals meet EIA standards
Transmitter Connections	RS232 signal and ground input; Twisted pair output. Connections via screwless terminal block for 14 AWG to 26 AWG wire
Receiver Connections	RS232 signal and ground output; Twisted pair input. Connections via screwless terminal block for 14 AWG to 26 AWG wire
Data Rate	up to 64K baud

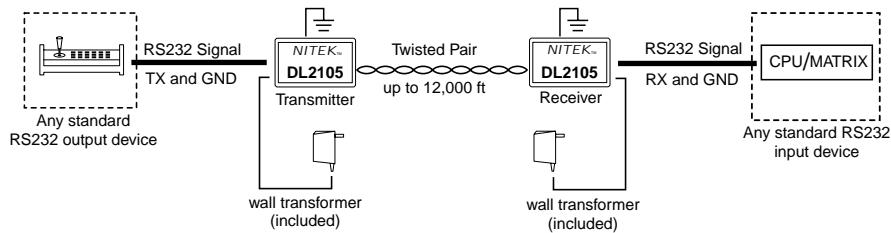
Surge Protection	Built-in surge suppression is provided when earth ground connection is used
Temperature Range	-40 degrees C to +85 degrees C
Humidity Range	0 to 98%, non-condensing
Enclosure Material	Black ABS Flame Retardant Plastic

Ordering Information

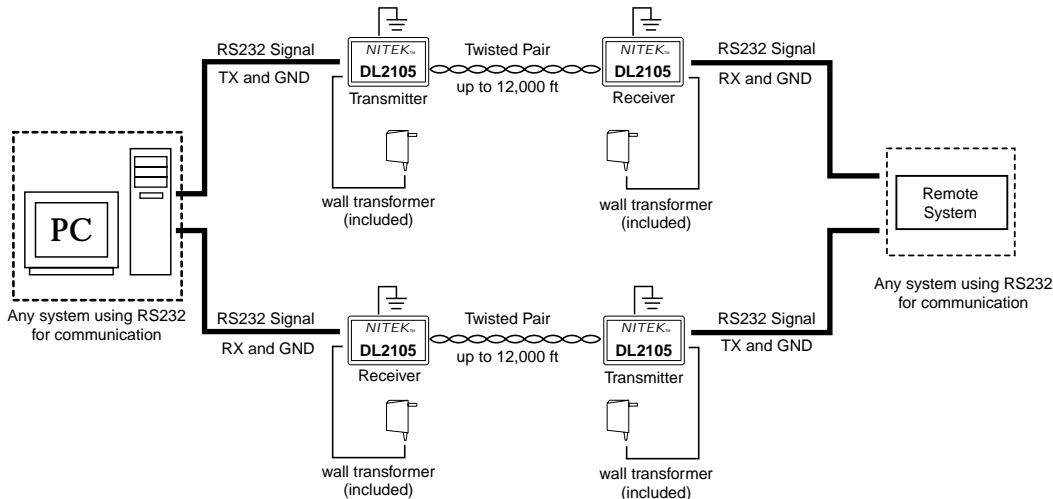
PART	DESCRIPTION
DL2105	RS232 applications up to 12,000 feet (1.9Km)
DL2105RX	RS232 Receiver only, for use with DL2105

Wire and Cable Recommendations

All NITEK data transmission systems are designed for use with **unshielded twisted pair (UTP)** wiring. The systems will operate over wire gauges from 24 AWG through 12 AWG. Category 2, 3, 4 or 5 cable may be used. Individually shielded pairs should be avoided, as they drastically reduce the operating range of the systems. Multi-pair cable with an overall shield is acceptable. The data communication signals can be sent in the same communication cable coexistent with telephone, computer, control signals, power voltages and video signals (where local codes allow). While they may be routed through telephone punch down block terminals, any bridge-taps, also called T-taps and any resistive, capacitive or inductive devices **MUST BE** removed from the pair. For more specific information regarding wire types, gauges and proper installation techniques, please call 800-528-4343 for technical assistance.



Half Duplex RS232 communication system



Full Duplex RS232 communication system