

# MIU14.4 SERIES

To service the growing need for efficient, reliable data communication in harsh environments of utility substations and industrial facilities, has developed a 14400bps modem that can operate from various AC/DC power supplies and survive high surge levels and extreme heat and cold. All this without compromising the performance expected from state-of-the-art communications devices.

With the rapid move toward "intelligent" substations, where meters, relays, RTU's, SCADA systems, etc. are able to "talk" to a remote operator, communication devices such as modems are moving off the desktop and into the field, where the conveniences of 115VAC power outlets and climate control are usually hard to find.

Data Connect Enterprise has addressed this problem by developing the MIU14.4 series modem designed specifically for harsh environments.

The MIU14.4 series modem is a highly sophisticated full duplex, V.32bis data modem that is designed to interface with RS232, RS485 (external device), 5V logic (TTL) or simple send and receive signals. The MIU14.4 series modem operates at full or half duplex on dial-up or 2-wire and 4-wire leased line systems.

The MIU14.4 series modem is powered from a unique power supply that enables it to operate on any AC or DC voltage ranging from 48V to 240V. A low voltage version (9-36VDC) is also available. The MIU14.4 modem is designed to work in temperatures from 40°C to 85°C, and is surge protected on both the power and analog lines.

The MIU14.4 series modem is bundled in a 5-3/8" X 1-3/8" non-metallic enclosure, suitable for desktop or wall mounting.

Also see our Data Sheets on the MIU/PowerPort low voltage modems, the "Myriad" Rack Mount Modem Banks, MIU202T (Bell), MIU28.8 and MIU9.6FPD modems.



## *Key Features*

*Modem Interface  
Units AC/DC  
POWERED*

*SUBSTATION  
HARDENED  
Communication  
Interface Units*

*14.4kbps 2 &  
4-Wire Leased Line  
Modem*

*48 to 220 AC/DC  
Power Supply*

*IEC801-4 Surge  
Protection*

*-40 Degrees  
Celsius to +85  
Degrees Celsius  
Operating  
Temperature*

*For Meters, Relays,  
SCADA etc.*

# General Specifications

**Modem Line Speeds:** Asynchronous  
14000, 9600, 4800, 2400, 1200, 300bps

**DTE Rates:** Above modem line speeds (ie; with data compression) 57.6, 38.4, 19.2kbps

**Standards:** V.32bis, V.32, V.22bis, V.22, Bell 212A, Bell 103

**Transmission Line:** Dial or 2 & 4 Wire Leased Line

**Compatibility:** Hayes Extended AT Command Set

**Power Supply** 48VAC/DC to 220VAC/DC (Optional 9-36VDC)

**Power Connector:** 4-ft AC Cord with 3-Pin Screw Terminal connector included

**Case Size:** 5-3/8" X 4" X 1-3/8"

**Digital Port:** RS232 with DB9 Connector

**Analog Port:** RJ11 Modular Jack

**Surge Protection:** (Power Line) 8kV [Exceeds IEC801-4] (20kV [IE801-5] available if required)

**Surge Protection:** 3.75VAC

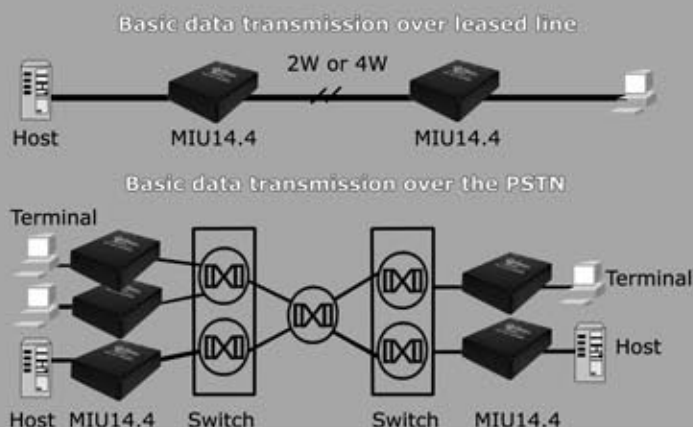
**Environment:** -40 Degrees Celsius to +85 Degrees Celsius, 0 to 95% humidity (non-condensing)

**Certifications:** FCC Part 68, Industry Canada



## Model Numbers and Optional Features

DCE/MIU14.4	2-wire dial-up standalone
DCE/MIU14.4-LV	2-wire dial-up standalone low voltage
DCE/MIU 14.4L	2-4-wire leased line standalone
DCE/MIU 14.4L-LV	2-4 wire leased line standalone low voltage



3405 Olandwood Court,  
Olney, MD 20832  
301-924-7400  
Fax 301-924-7403

[www.data-connect.com](http://www.data-connect.com)  
[www.dataconnectus.com](http://www.dataconnectus.com)

Distributed by [www.clickitdirect.com](http://www.clickitdirect.com)

Doc no. 06042008MIU144