UDC-ME, Modem Eliminator Long RTS/CTS Delays Install Guide

The UDC-ME allows two DTE devices to communicate within proximity of each other. The UDC-ME transmits data bi-directionally at clock rates of 1.2k up to 2.0482Mbps between DTE devices. All clocking and signal crossover are provided within the UDC-ME. The unit is equipped with two interface slots that allow a host of serial interface cards to be utilized. The serial interface cards available are RS-232, RS-422/449, RS-530, X.21 and V.35. The Serial Interface cards are interchangeable and may be mixed such as RS-232 to V.35.

Installation is fast and simple by setting the internal switches for Clocking, Carrier Operation and RTS to CTS delay. The UDC-ME has status LED's for each attached DTE device which allows the user to visually confirm the presence of clock and control signals. The UDC-ME Long RTS to CTS Delay option is included in this product which allows emulation of latency response times in a WAN Network. Also included are options for data or clock inversion.

The UDC-ME is housed in a sturdy aluminum enclosure and is supplied with an internal linear power supply. The unit has a 110/120 VAC rotary select switch located on the rear of the

CAUTION: Disconnect Power Before Servicing
ATTENTION: Couper Le Courant Avant l' Entretien
VORSICHT: Befor Deckung Abnehmen Mach Strom Zu

housing. The unit can operate on standard power found in all countries.

VOLTAGE SELECTION

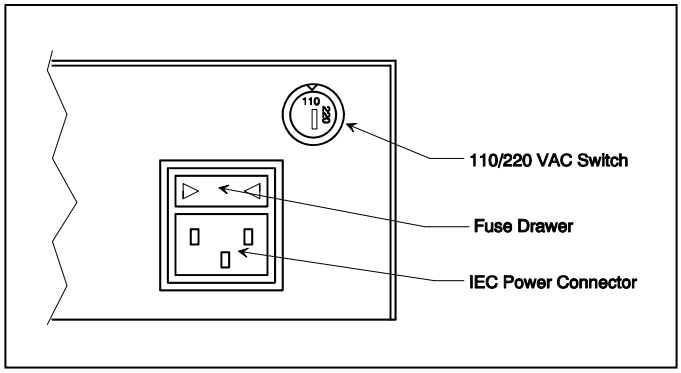
It is *very* important to check that the unit is set to the correct voltage setting for your application before applying AC power. Located on the rear of the unit you will find a rotary 110/220 VAC switch. Using a coin or small screwdriver, *gently* turn the switch to the appropriate power position as required for your installation (110 or 220 VAC).

VOLTAGE SELECTION FUSES

Located on the back or rear of the product you will find an IEC Power receptacle. This receptacle contains a fuse drawer. Two (2) fuses are located in this compartment. For 110 VAC +/- 10% operation the unit is equipped with slow blow 5 x 20mm 160ma Fuses, E.C.D. Part # 714000. For 220 VAC +/- 10% operation the unit is equipped with slow blow 5 x 20mm 80ma Fuses, E.C.D. Part # 714001.

POWER CONNECTION

Before connecting the UDC-ME to an AC power source the top cover should be installed with the supplied #4-40 screws. AC power is supplied to the unit through a 2.3m (6.6 ft) cord terminated by a grounded 3-prong plug. Select an appropriate location accessible to and within four to five feet of an AC outlet. The AC Power source MUST be grounded or the units Warranty will be void.



Power Connection
Figure 3-1

FRONT PANEL INDICATORS

A *Green* LED marked ***POWER*** illuminates when AC Power has been applied. Two adjacent sets of *Green* LEDs, one for ***PORT A*** and another for ***PORT B***, illuminate in union with individual port control signal activity. Both Port A and Port B indicators flash in union with Port A and Port B data interfaces.

FRONT PANEL SWITCHES

Located on the front panel of the UDC-ME are two dip switches. The switches are marked ***SW1*** and ***SW2***.

Front Panel SW1:	Switch Settings SW1:							
Baud Rate	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
1,200	Unused	Unused	Unused	OFF	OFF	OFF	OFF	OFF
2,400	"	"	"	OFF	OFF	OFF	OFF	ON
4,800	"	"	"	OFF	OFF	OFF	ON	OFF
7,200	"	"	"	OFF	OFF	OFF	ON	ON
9,600	"	"	"	OFF	OFF	ON	OFF	OFF
14,400	"	"	"	OFF	OFF	ON	OFF	ON
16,000	"	"	"	OFF	OFF	ON	ON	OFF
19,200	"	"	"	OFF	OFF	ON	ON	ON
28,800	"	"	"	OFF	ON	OFF	OFF	OFF
32,000	"	"	"	OFF	ON	OFF	OFF	ON
38,400	"	"	"	OFF	ON	OFF	ON	OFF
48,000	"	"	"	OFF	ON	OFF	ON	ON
56,000	"	"	"	OFF	ON	ON	OFF	OFF
57,600	"	"	"	OFF	ON	ON	OFF	ON
64,000	"	"	"	OFF	ON	ON	ON	OFF
72,000	"	"	"	OFF	ON	ON	ON	ON
96,000	"	"	"	ON	OFF	OFF	OFF	OFF
128,000	"	"	"	ON	OFF	OFF	OFF	ON
192,000	"	"	"	ON	OFF	OFF	ON	OFF
256,000	"	"	"	ON	OFF	OFF	ON	ON
384,000	"	"	"	ON	OFF	ON	OFF	OFF
512,000	"	"	"	ON	OFF	ON	OFF	ON
768,000	"	"	"	ON	OFF	ON	ON	OFF
1,024,000	"	"	"	ON	OFF	ON	ON	ON
Unused	"	"	"	ON	ON	OFF	OFF	OFF
Unused	"	"	"	ON	ON	OFF	OFF	ON
Unused	"	"	"	ON	ON	OFF	ON	OFF
1,544,000	"	"	"	ON	ON	OFF	ON	ON
Unused	"	"	"	ON	ON	ON	OFF	OFF
Unused	"	"	"	ON	ON	ON	OFF	ON
2,048,000	"	"	"	ON	ON	ON	ON	OFF
Unused	"	"	"	ON	ON	ON	ON	ON

Front Panel SW2:	**Switch Settings SW2:**							
Function	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Internal Clock Generator								OFF
External Clock from Port A								ON
Port A CTS Follows RTS Normal (RTS low to high CTS goes high)							OFF	
Port A CTS Follows RTS Inverted (RTS high to low CTS goes high)							ON	
Port A CTS Delay = 0 Sec					OFF	OFF		
Port A CTS Delay = 1 Sec					OFF	ON		
Port A CTS Delay = 2.5 Sec					ON	OFF		
Port A CTS Delay = 5 Sec					ON	ON		
Internal Clock Generator				OFF				
External Clock from Port B				ON				
Port B CTS Follows RTS Normal (RTS low to high CTS goes high)			OFF					
Port B CTS Follows RTS Inverted (RTS high to low CTS goes high)			ON					
Port B CTS Delay = 0 Sec	OFF	OFF						
Port B CTS Delay = 1 Sec	OFF	ON						
Port B CTS Delay = 2.5 Sec	ON	OFF						
Port B CTS Delay = 5 Sec	ON	ON						
Internal SW5:	**Switch Settings SW5:**							
Function	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Port A TXC Normal	OFF							
Port A TXC Inverted	ON							
Port A RXC Normal		OFF						
Port A RXC Inverted		ON						
Port B TXC Normal			OFF					
Port B TXC Inverted			ON					
Port B RXC Normal				OFF				
Port B RXC Inverted				ON				
Port A DCD Follows Port B CTS					OFF			
Port A DCD Always ON					ON			
Port A DSR Follows Port A DTR						OFF		
Port A DSR Always ON						ON		
Port B DCD Follows Port A CTS							OFF	
Port B DCD Always ON							ON	
Port B DSR Follows Port B DTR								OFF
Port B DSR Always ON								ON

Ordering PT# 271000

Description: UDC-ME, Modem Eliminator, w/extended RTS/CTS Delays, Invertered CTS Option, Standalone, Rates 1.2k to 3.072Mbps, Internal linear Power for 110/220VAC operation