

Application Note : TIU - Unitelway

1.0. INTRODUCTION

This application note is designed to assist the user in configuring the **Operator Stations HE500TIU050 / 10X / 11X / 20X with the Group Schneider Modicon TSX Micro as a Unitelway V1.1 Client (Master)**. It is not intended as a User manual for either product range, for more information on the features and use of the equipment please see the individual User's manuals.

2.0. PROTOCOL FILE NAME

The protocol files are saved in three different files, choose the protocol for the required model from the following list (Cbreeze will only display the correct one once the model has been chosen) :

HE500TIU050 = Unitel_R?.0xx
HE500TIU1xx = Unitel _R?.1xx
HE500TIU2xx = Unitel _R?.2xx
(The "?" = the TIU firmware revision).

3.0. CONFIGURING THE OPERATOR STATION

The initial screen upon power-up displays various information about the Operator Station, including what firmware version is loaded and what protocol. If the Unitelway protocol is not loaded select the Automated Equipment in the Communication Settings from the Configure menu in **CBREEZE** software. Select the appropriate Manufacturer and the appropriate Remote Equipment Model. Then from the File menu select Update Protocol, the appropriate file name will appear in the file name field. The programmer may need to point to the correct folder name/location. If further information is required see the manual or **CBREEZE** help on update/change protocol.

The Horner APG Unitelway V1.1 Protocol supports read and write of: -

- Internal Words
- Internal Bits
- System Words
- System Bits

3.1. SERIAL PORT FORMAT

The PLC defaults to using 9600 baud, 8 data bits, one stop bit and Odd parity. The connections are via the 2 Wire RS485 TER port .

4.0. PLC CONFIGURATION

The PLC can be configured as a Client (master) or a Server (Slave). When connecting to a TIU it must be configured as a Server. As well as the PLC mode the Server Address must also be set. Both these are configure by the PL7 programming software. Open the **Application Browser**, click on **Hardware Configuration**, when a picture of the PLC is visible click on the block labeled **Comm**. Then make sure that the **Type** box is set to 'Slave' and the Server address is set to match the node address in **CBREEZE** (see Figure 1. a PLC7 screen capture).

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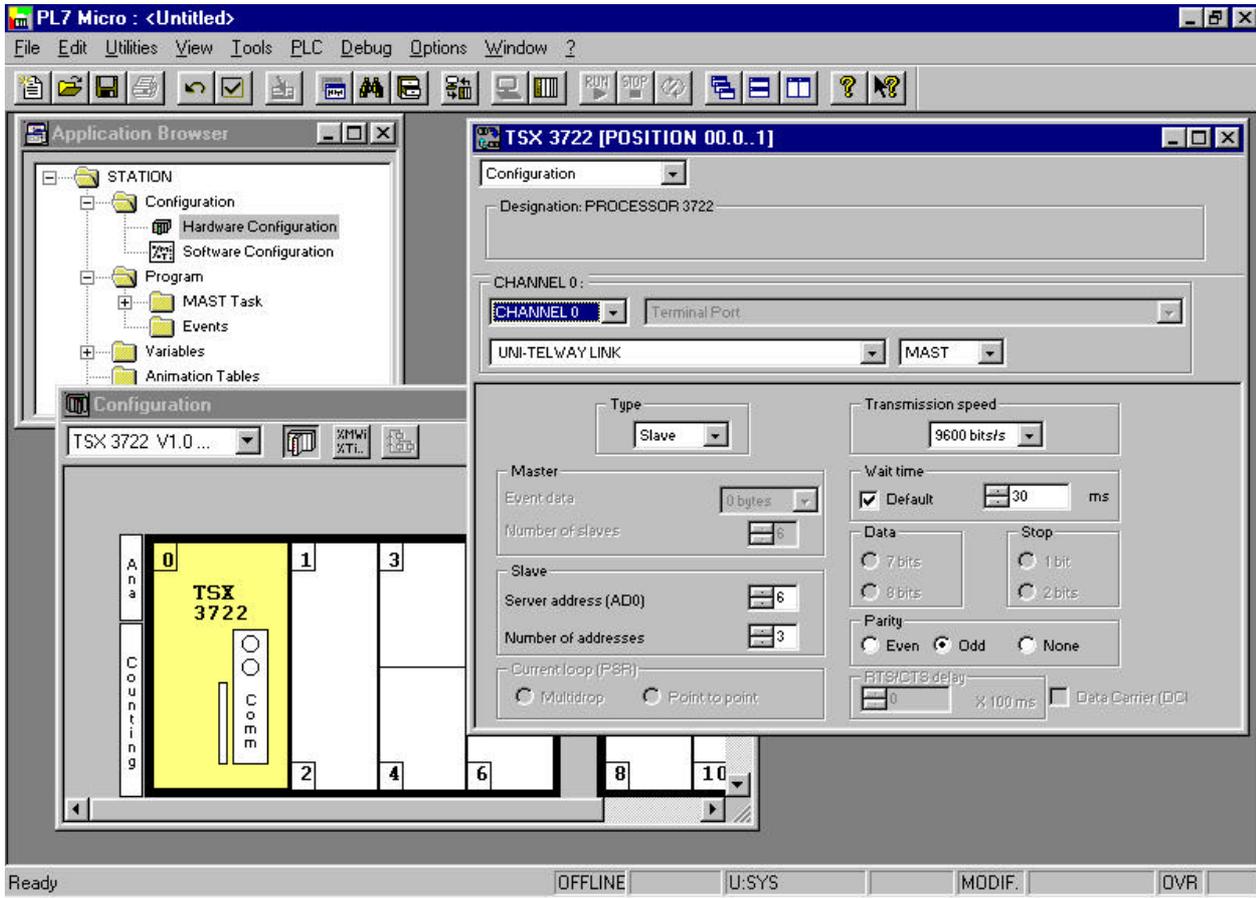
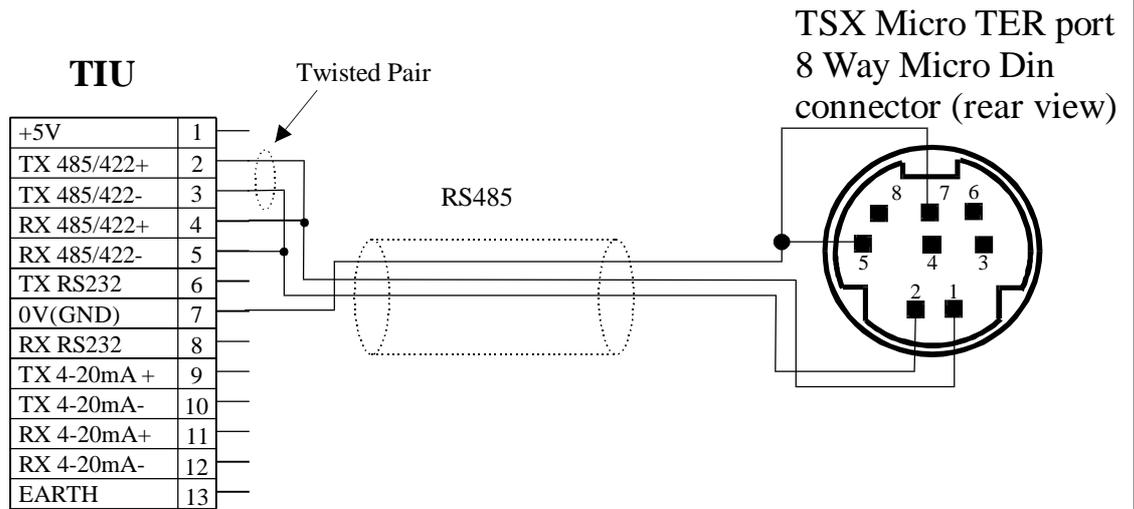
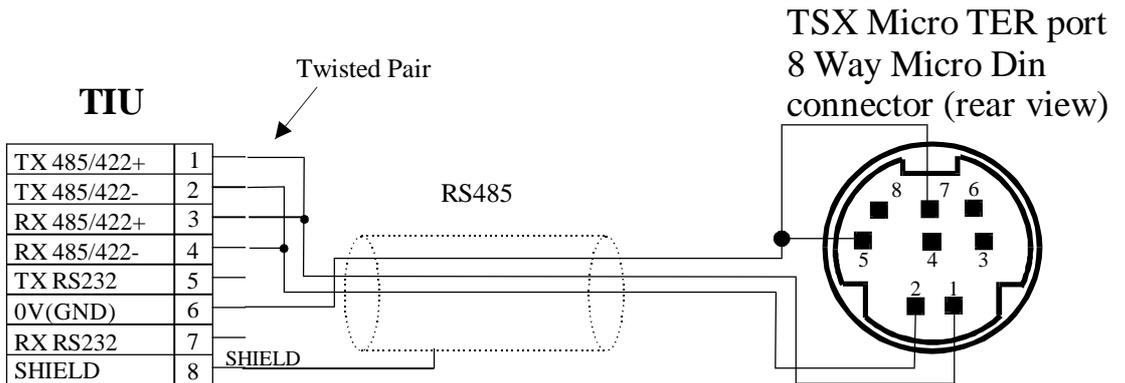


Figure 1. PLC7 Screen Capture, Slave Configuration Menu

CONNECTING AN OPERATOR STATION to a Telemecanique TSX37 (Micro) PLC



TIU100/TIU110

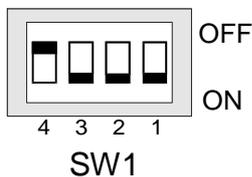


TIU050/TIU200/TIU101/TIU102

Configuration Bank		
Switch	ON	OFF
1	Pull-up	No Pull-up
2	120 termination	No termination
3	Pull-down	No Pull-down
4	Reserved for future use	

NOTE: Switch 1 and 3 must be used together.

Cable Screened Twisted Pair Beldon 9502
Use one pair for Data
Second pair for OV.



Rev	Date	EO #	Description of Change	By
1.0	27/04/00		Initial Release	AB
1.1	25/07/00		Additional link to pin 5 added	AB

HORNER ARG	Unit 1 Centrepoint, CentreParkRd., Cork, Ireland. TEL: +353-21-321266 FAX: +353-21-321826 Date: 25 July 2000
Doc. #	
Title	Cable Dwg. TIU-Telemecanique TSX37 Series PLC
Drawn By:	Andrew Brailsford
Rev	1.1
Current EO #	
Sheet	3 Of 3