



## Application Note for Using the Operator Station HE500TIU050/10X/11X/20X with the AuCom Soft-Starter drive

### Protocol File Name

HE500TIU050 = IMS2\_R?.0xx  
 HE500TIU1xx = IMS2\_R?.1xx  
 HE500TIU2xx = IMS2\_R?.2xx  
 (The “?” = the TIU firmware revision)

### Configuring the Operator Station

To verify the Automated Equipment type the Operator Station is setup for, watch the screen of the Operator Station on power up. The first screen message details the setup of the Operator Station. To configure the Operator Station for particular Automated Equipment, 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.

### Protocol Revisions

Version 1.00 Supports master only operation to the Soft-starter, supporting two command types :- Command and Read Status / Data WORD register ranges, table 1 shows the parameter ranges :

Operation	Range
Command	B10, B12, B14, B16
Read Status / Data	C10, C12, C14, C16, C18, D10, D12.

Table 1. Operation types and ranges.

### Serial Port Format

The AuCom Soft-starter operates by default with the following serial port configuration :-

Status	Baud Rate	No. Data bits	Parity	No. Stop Bits
Factory Setting	9600	8	None	1
Optional settings	2400	8	None	1
	4800			
	9600			
	19200			

Table 2. Serial Port settings

Connection to the Soft-starter is via a screw terminal inside the housing, the interface is a two wire RS485 interface.

## Node Address.

This must be in the range 1 to 99, the node number or Satellite Address is stored in parameter 62 of the soft-starter, the factory default is 20. Unpredictable results will occur if two or more nodes on the network share the same node address.

## Register Type Specification

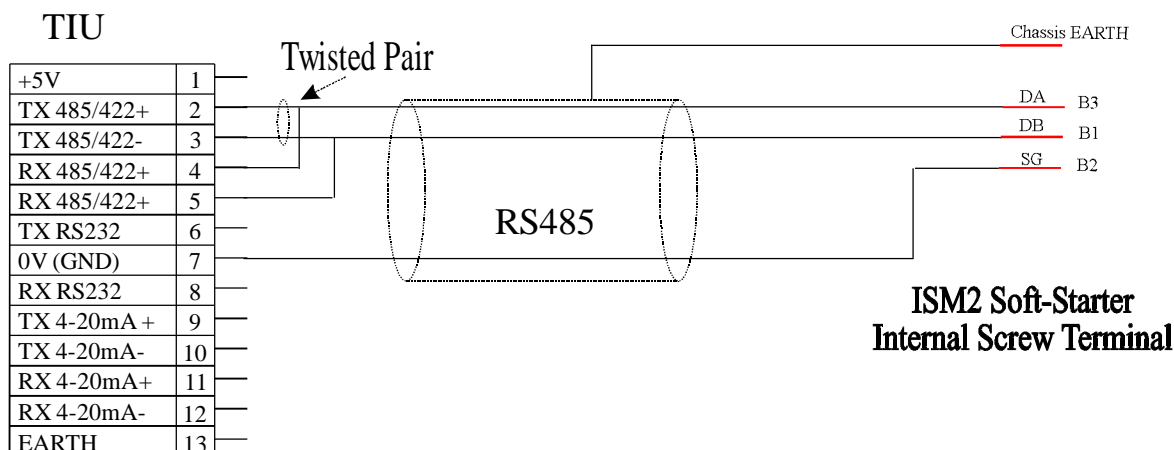
Only one type of Register is supported by the DMC10 CPL protocol : Word

### Word Types

- Command
- Read Status/Data

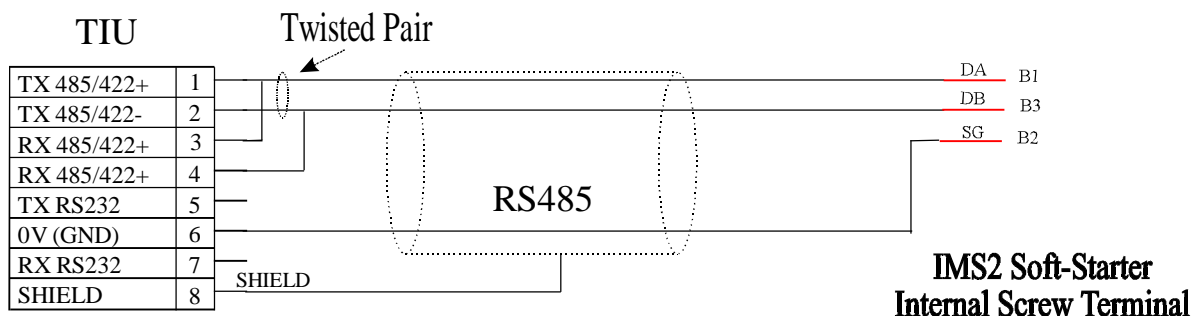
For details of the Command and Read Status/Data parameters see the Soft-starter's User's Manual.

# CONNECTING THE OPERATOR STATION TO AN AuCom IMS2 Soft-Starter Drive



## TIU100/TIU110 to an AuCom IMS2 Soft-Starter

Cable Screened Twisted Multipair  
Beldon 9503  
One Pair Tx/RXData, One Pair for 0V  
Connect Screen to earth at DMC10 end



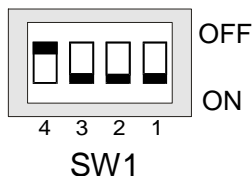
## TIU050/TIU20X/TIU1X1/TIU1X2 to AuCom IMS2 Soft-Starter

### 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.

Ensure TIU-PLC Serial Port switch settings  
reflect any resistors on the TIU side



Rev	Date	EO #	Description of Change	By
1.0	03/12/01		Initial Release	D.T.

 	Unit 1 Centrepoint, Centre Park Rd., Coek, Ireland.
	TEL: +353-21-4321166 FAX: +353-21-4321826 Date: 03 Dec 2001
Doc. # APP0395	
Title Cable Dwg, TIU - AuCom IMS2 Soft-Starter Drive	
Drawn By: D.T.	Rev 1.0
Current EO #	Sheet 3 Of 3