



Addressable RS485/RS422 To RS232 Isolated Converter

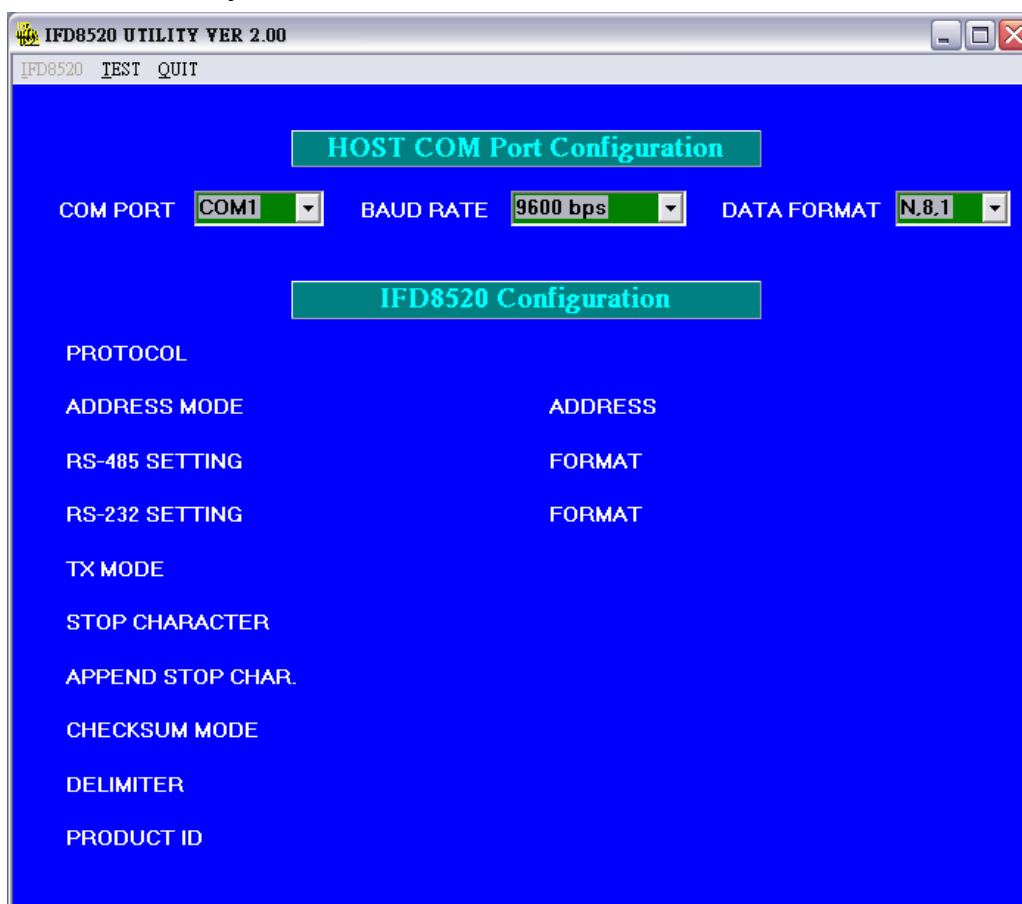


【A--Software setting】

1.

Material	1. IFD-8520 Converter
	2. IFD-8520 Software
	3. USB to RS232 (if without COM)
	4. RS-232 transfer cable (Male-Female)
	5. Power Supply 9~35VDC
Environment	1. IFD8520 Utility Ver 2.00
	2. Firmware Ver.2.00

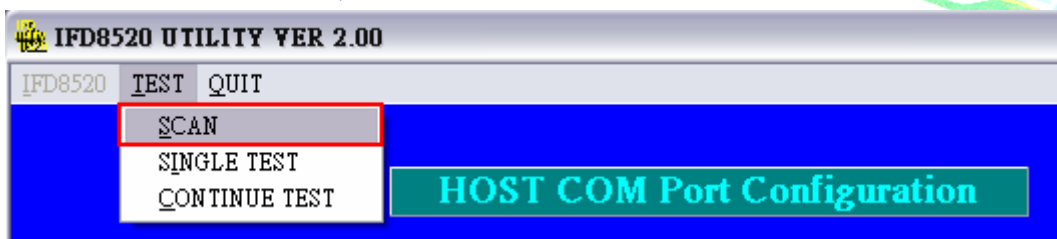
3. Connect the IFD-8520 to PC with RS-232 and short the Pin8(INIT) and Pin10(GND) , then turn on the power.
4. After power on , the indicator will sparkle three times to make sure the unit was in **software setting mode**.(if not , please power cycle ,till the indicator shows right)
5. Execute the IFD-8520 Utility software, shows as below.



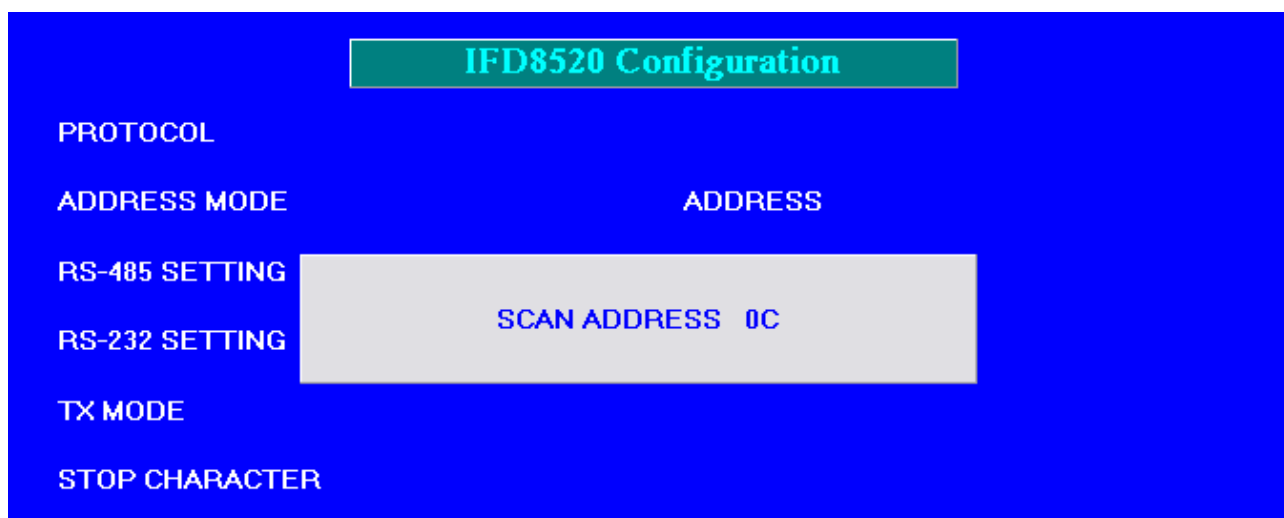
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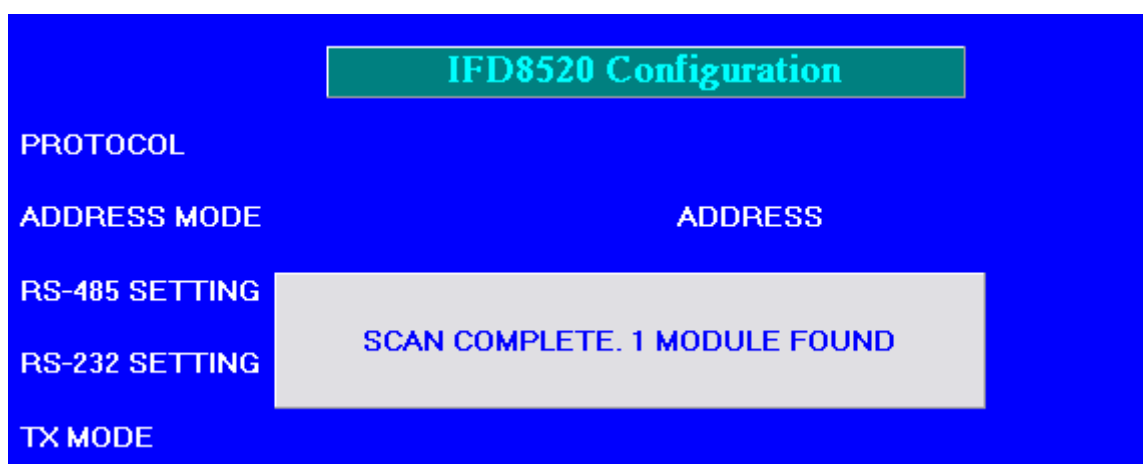
6. HOST COM Port Configuration was the Protocol between PC and unit.
7. IFD-8520 Configuration was the parameter setting in IDF-8520.
8. Select the SCAN function, shows as below.



9. Scanning shows as below.



10. If the IFD-8520 was a new one or the user pretty sure that the station wasn't too far to scan , for example , if the station was set to 02 , when the scan goes to 0C as the figure shows , you can interrupt it by click the left button or press ENTER , cause the station number was already been scanned .
11. After click left button or press ENTER, the software will show the message as below.



12. Press ENTER again, the device list will be showed as below.

IFD8520 Configuration

PROTOCOL		
ADDRESS	ADDRESS	PRODUCT ID
RS-485 SET	00H *	IFD8520, RS485 CONVERTER(V2.00)
RS-232 SET		
TX MODE		
STOP CHAR		
APPEND ST		
CHECKSUM MODE		
DELIMITER		

13. Press ENTER one more time, the setting menu will be showed as below.

IFD8520 UTILITY VER 2.00

IFD8520 TEST QUIT

HOST COM Port Configuration

COM PORT COM1

BAUD RATE 9600 bps

DATA FORMAT N,8,1

IFD8520 Configuration

PROTOCOL	RS-485	
ADDRESS MODE	ON	ADDRESS 01
RS-485 SETTING	9600 bps	FORMAT N,8,1
RS-232 SETTING	9600 bps	FORMAT N,8,1
TX MODE	NORMAL MODE	
STOP CHARACTER	0D	
APPEND STOP CHAR.	YES	
CHECKSUM MODE	OFF	
DELIMITER	:	
PRODUCT ID	IFD8520, RS485 CONVERTER(V2.00)	

14. ADDRESS MODE

ON : address mode (address set-able)

ADDRESS MODE	ON	ADDRESS	02
	ON		
	OFF		

OFF : direct mode (address non set-able)

ADDRESS MODE	OFF	ADDRESS	
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15. TX MODE

NORMAL MODE : Send the characters, when receive the stop character.

FAST RESPONSE MODE : Send the characters, when receive the character.

TX MODE	NORMAL MODE
	NORMAL MODE
	FAST RESPONSE MODE

16. STOP CHARACTER

Stop character setting, in MODBUS, the stop character was "0A".

STOP CHARACTER	0A
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17. APPEND STOP CHAR.

YES : Transfer with stop character

NO : Transfer without stop character

APPEND STOP CHAR.	YES
	YES
	NO

18. CHECKSUM MODE

Checksum function, inspect the character which transferred was right.

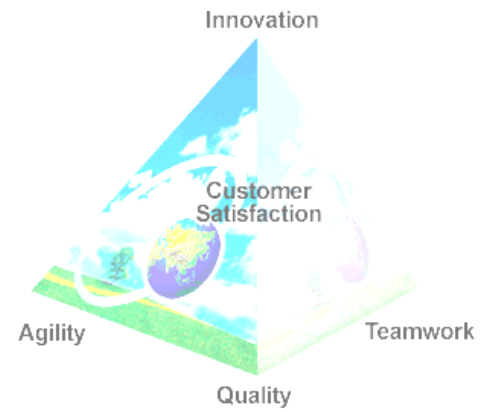
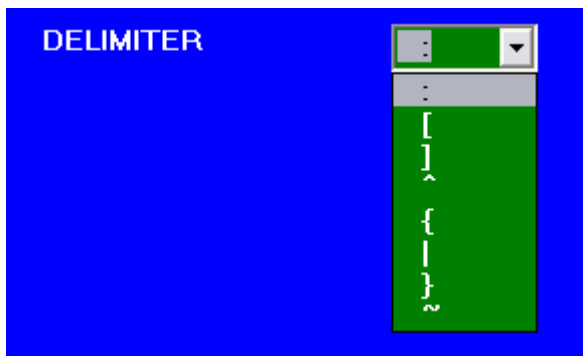
ON : Transfer with checksum function

OFF : Transfer without checksum function

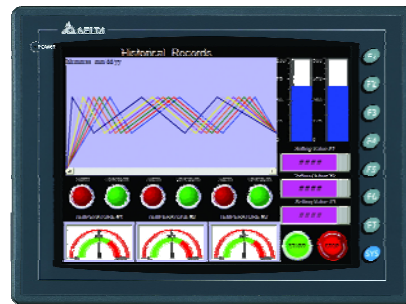
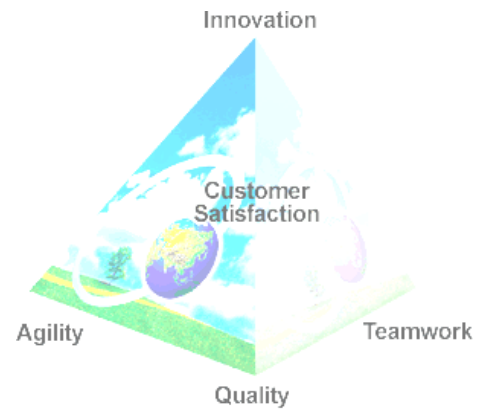
CHECKSUM MODE	OFF
	ON
	OFF

19. DELIMITER

The start character, in MODBUS, the start character was ":".



20. After setting and save, leave the software, and open the Pin8(INIT) and Pin10 (GND) , then re-start the power .
21. Re-start the power; the indicator will sparkle once to make sure the unit was in **operation mode**.



COM1 RS-232 Port

RS-232 transfer cable
(male-female)

RS232
to
RS485

IFD8500 or
IFD8501 RS-232
to RS485/422
converter

Format
9600、7、
Even、1

Address # 2

RS485
to
RS232

IFD8520
Addressable
RS-485/422 to
RS-232 converter

IFD8520
Addressable
RS-485/422 to
RS-232 converter

IFD8520
Addressable
RS-485/422 to
RS-232 converter

RS-232 crossover cable
(male-male)

PLC Station No : 1

COM1 RS-232 Port

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1. The system frame was shows as above.
2. The material :

1	DOP
2	IFD-8500 converter
3	IFD-8520 converter
4	RS-232 (male-male) transfer cable
5	RS-232 (male-male) crossover cable
6	DOP—PLC transfer cable (RS-232)
7	Power supply9~35VDC
8	DOP program download cable
9	Screen Editor V1.05.78
10	PLC Software with WPL

	PIN (DELTA DOP)	PIN (DELTA PLC)
RXD	2	5
TXD	3	4
GND	5	8

3. Re-start the power; the indicator will sparkle once to make sure the unit was in **operation mode**.
4. Download the program below to DOP and PLC.

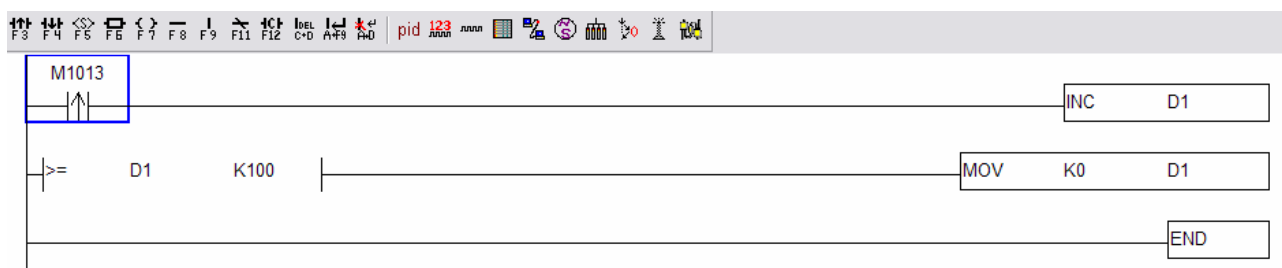


IFD-8520 Practice.dop



IFD-8520 Practice.dvp

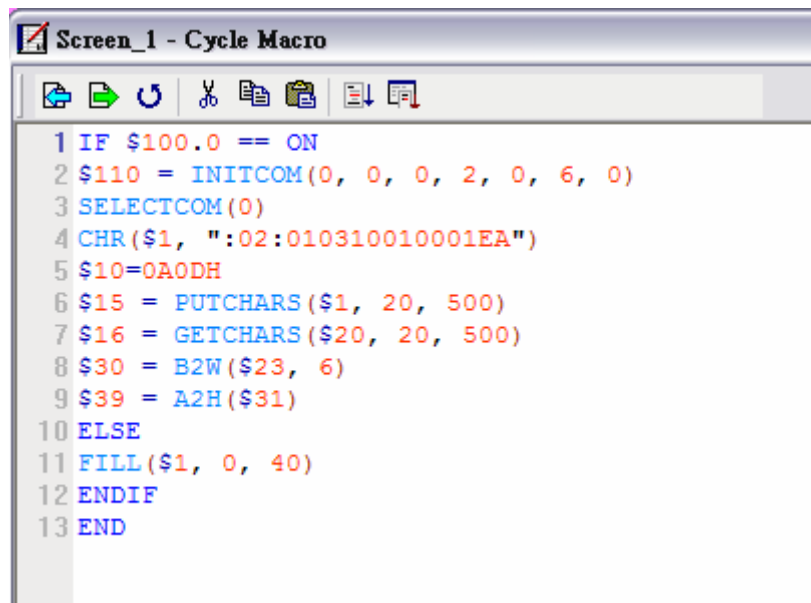
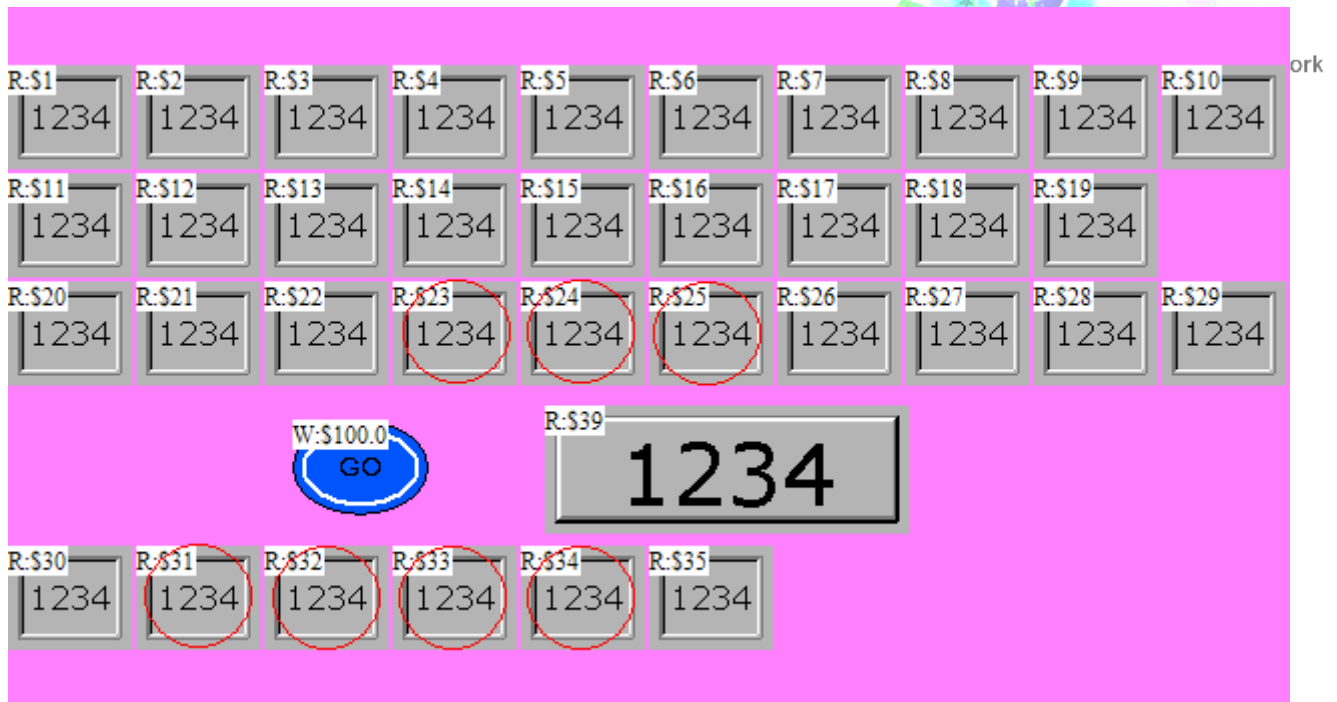
5. Cable connects as the system frame shows.
6. PLC program show as below, increase D1 per second.



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7. The DOP program shows as below, transfer order to PLC by using cycle macro, the PLC will response the value of D1 and then show in the \$39.



8. One thing should be notice was on the 4th line , :02:010310010001EA ,
:02 means the station which set on the IFD-8520
:010310010001EA was the whole character , for reading D1 value on PLC(D1=1001H)

End

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