

ICT004 General Potocol For RS232

=====

* History : The documentation rename and modified from TEL_DEVICE.DOC

*
* Difference : The difference between ICT002 and ICT001 (used in BL-700R) is as below :

*
* Action 3 : code 21h,25h,26h,27h,28h,29h,2Ah

*
* Usage : The protocol has been used in A7 RS-232.

*
* Revised by Jason & Kevin

*
* Revised dated : 2003/1/22

=====

-Transmission Specification -----

Transmission Method	Full Duplex Transmission
Transmission Speed	9600 Baud Rate
Synchronizing Method	Asynchronous Method
Connection Control Method	Request Method
Data Format	
Start bit	1
Data bit	8
Parity bit	Even
Stop bit	1
X parameter	None

Action 1:

(**Bill Acceptor**)

(**Controller**)

(**Power Supply ON**)-----

80h (128) ----- >

8fh (143) ----- >

(Handle Request)

:

:

(Within 2 Second)

<-----

02h (02)

(Handle Response)

(Receive 02h ,Communication Successful)

Exception----- (No Received 02h , Within 2 Second)-----

(Communication Failure)

26h (38) ----- >

(No Response)

Disable Bill Acceptor To "Inhibit" Status

* But,The Controller Can Transfer Data (02h),Return To Normal Status ,

To restart trade anytime .

Action 2:

(**Bill Acceptor**)

(**Controller**)

Escrow-----(When validator verify bill)-----

81h - - - - - >

(Judge Bill OK)

40h ... 44h - - - - - >

(Response Bill Value)

(exp : 40h (64)- - - > first Bill Kind (example US\$1)

41h (65)- - - > Second Bill Type (US\$5)

42h (66)- - - > Third Bill Type

43h (67)- - - > Fourth Bill Type

44h (68)- - - > Fifth Bill Type)

< - - - - -

02h (02)

(Request Accept)

< - - - - -

Or

0fh (15)

(Response Reject)

:

:

Stacked-----(When validator verify bill)-----

10h (16) - - - - - >

(Bill Accept Finish) Or

11h (17) - - - - - >

(Bill Accept Failure)

Controller need not respond.

-Exception-----(Response Bill Value , No Request "Accept Or Reject Command")-----

(5 secs Time Out and Reject Bill Every Time)

(If it continue 2 Times ,Bill Acceptor Response Communication Failure)

Action 3:

(**Bill Acceptor**)

(**Controller**)

-Other Message--(When Bill Acceptor Happen Exception Status)

- 20h (32) - - - - - > (Response Motor Failure)
- 21h (33) - - - - - > (Response CheckSum Error)
- 22h (34) - - - - - > (Response Bill Jam)
- 23h (35) - - - - - > (Response Bill Remove)
- 24h (36) - - - - - > (Response Stacker Open)
- 25h (37) - - - - - > (Response Sensor Problem)
- 27h (39) - - - - - > (Response Bill Fish)
- 28h (40) - - - - - > (Response Stacker Problem)
- 29h (41) - - - - - > (Response Bill Reject)
- 2Ah (39) - - - - - > (Response Invalid Command)

: :
:
:

- 2eh (46) - - - - - > (Response Reserved)
- 2fh (47) - - - - - > (Response When Error Status is Exclusion)

(In normal case B.A. send this code every 30 secs.)
(Controller Havn't to Response)

Action 4:

-Inhibit (Response & Request)-----

- ←-----3eh(62)
(controller Enable Bill Acceptor)
- ←-----5eh(62)
(controller Disable Bill Acceptor)

Action 5:

-Controller Polling Bill Acceptor

(Bill Acceptor)

(Controller)

< - - - -

0ch (12)

(Request Bill Accept Status)

20h (32) - - - - - > (Response Motor Failure)
21h (33) - - - - - > (Response CheckSum Error)
22h (34) - - - - - > (Response Bill Jam)
23h (35) - - - - - > (Response Bill Remove)
24h (36) - - - - - > (Response Stacker Open)
25h (37) - - - - - > (Response Sensor Problem)
27h (39) - - - - - > (Response Bill Fish)
28h (40) - - - - - > (Response Stacker Problem)
29h (41) - - - - - > (Response Bill Reject)
2Ah (39) - - - - - > (Response Invalid Command)
3eh (62) - - - - - > (Response Bill Accept Enable Status)
5eh (94) - - - - - > (Response Bill Accept Inhibit Status)

Action 6:

(Bill Acceptor)

(Controller)

< - - - - -

30H

(Command Bill Acceptor Reset)

80h (128) - - - - - >
8fh (143) - - - - - >

(Handle Request)

:

(Within 2 Second)

:

< - - - - -

02h (02)

(Handle Response)

(Receive 02h ,Communication Successful)

Exception----- (No Received 02h , Within 2 Second)-----

(Communication Failure)

26h (38) - - - - - > (No Response)

Disable Bill Acceptor To "Inhibit" Status

* But, The Controller Can Transfer Data (02h), Return To Normal Status ,

To restart trade anytime .