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CHAPTER-VII

THE OTHERS

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A. FOR THE SERIAL INTERFACES

THE PROTOCOLS FOR THE CAS STANDARD SERIAL INTERFACE

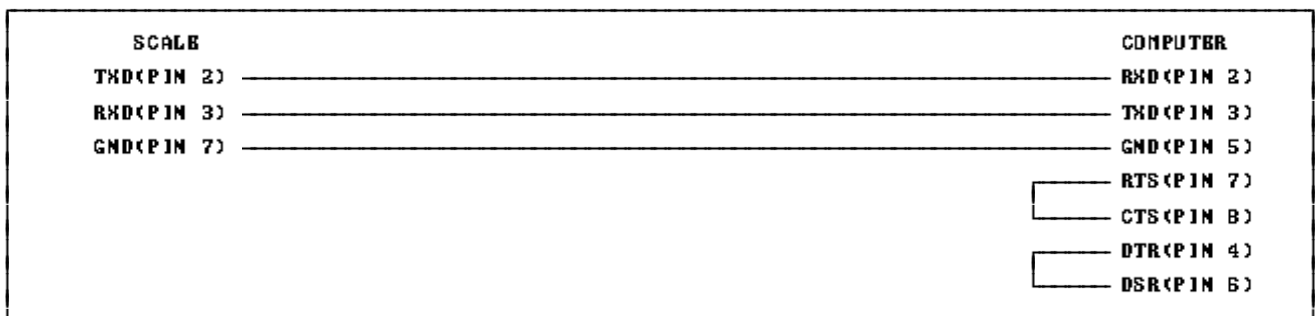
THIS IS HALF-DUPLEX COMMUNICATION RS-232C.

A. 1 THE COMMUNICATION AGREEMENTS

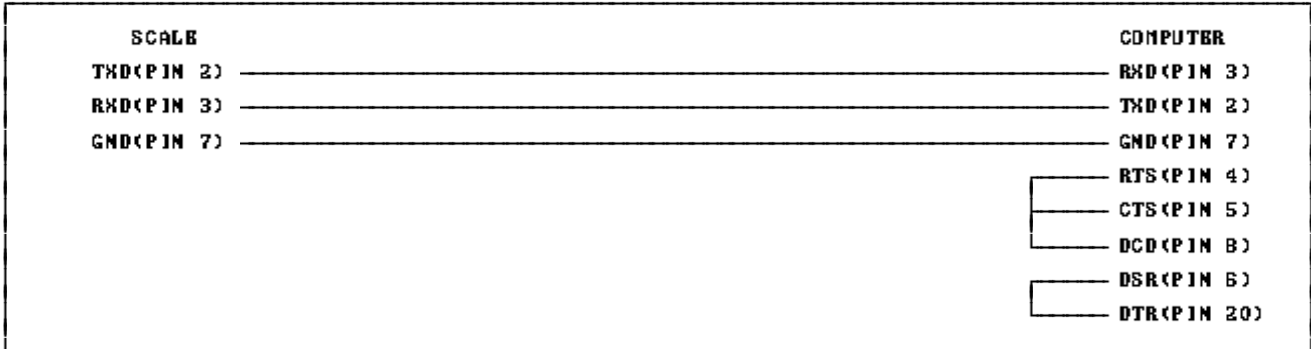
- 1. BAUD RATE -> 8,500 BPS
- 2. DATA BIT -> 8 BIT
- 3. STOP BIT -> 1 BIT
- 4. PARITY BIT -> ND
- 5. COMMUNICATION LEVEL -> RS-232C LEVEL
- 6. DATA FORMAT -> ASCII
- 7. THE COMMAND DEFINITIONS
 - B-1. "BNQ" -> 05H
 - B-2. "ACK" -> 06H
 - B-3. "NAK" -> 15H
 - B-4. "SDH" -> 01H
 - B-5. "STX" -> 02H
 - B-6. "BTH" -> 03H
 - B-7. "BDT" -> 04H
 - B-8. "DC1" -> 11H
 - B-9. "DC2" -> 12H
 - B-10. "DC3" -> 13H
 - B-11. "DC4" -> 14H

A. 2 THE WIRE CONNECTIONS

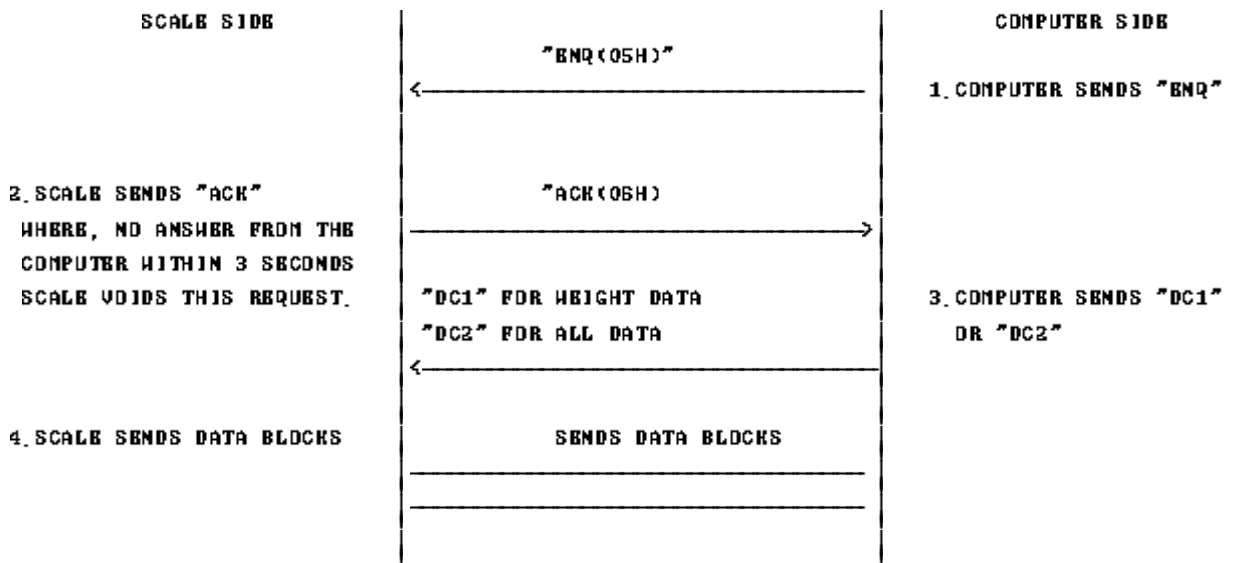
A.2.1 THE WIRE CONNECTIONS OF THE D-SUB 9 PIN CONNECTOR OF A COMPUTER SIDE



A.2.2 THE WIRE CONNECTIONS OF THE D-SUB 25 PIN CONNECTOR OF A COMPUTER SIDE

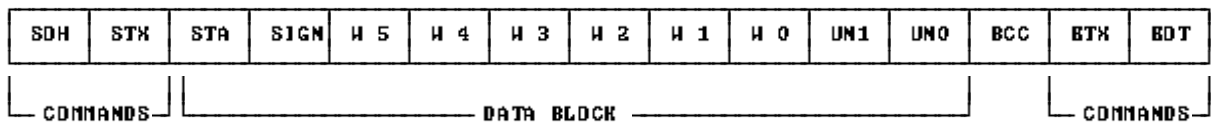


A. 3 THE PROTOCOL



A. 4. THE DATA TRAINS

1. THE DATA TRAINS FOR THE "DC1"



REMARKS :

- . STA -> A WEIGHING STATUS OF THE SCALE
SCALE IS STABLE -> "S", NOT STABLED -> "U"
- . SIGN -> SIGN OF THE HEIGHT DATA
ZERO AND POSITIVE HEIGHT -> " ", NEGATIVE HEIGHT -> "-",
OVER LOAD -> "F"
- . H5 THROUGH H0 -> HEIGHT DATA
BUT ALL "F"s WHEN THE SCALE IS PUT ON OVER LOAD.
- . UM1 THROUGH UM0 -> UNIT OF HEIGHT(kg OR lb)
- . BCC -> BLOCK CHECK CHARACTER
BCC IS CREATED BY EXCLUSIVE ORED OF A DATA BLOCK.

2. THE DATA TRAINS FOR THE "DC2"

SDH	STX	P 7	P 6	P 5	P 4	P 3	P 2	P 1	P 0	BCC	ETX
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STX	STA	SIGN	H 5	H 4	H 3	H 2	H 1	H 0	UN1	UN0	BCC	ETX
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STX	P 7	P 6	P 5	P 4	P 3	P 2	P 1	P 0	BCC	ETX	EDT
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REMARKS :

- . STA -> A WEIGHING STATUS OF THE SCALE
SCALE IS STABLE -> "S" , NOT STABLED -> "U"
- . SIGN ->SIGNS OF THE HEIGHT DATA
ZERD AND POSITIVE HEIGHT -> " " , NEGATIVE HEIGHT -> "-" ,
OVER LOAD -> "F"
- . P7 THROUGH P0 -> PRICE DATA
IF THE OVER FLDW IS HAPPEN IN PRICE, ALL "F"s WILL FILL TO DATA BLOCK OF THE PRICE.
- . H5 THROUGH H0 -> HEIGHT DATA
BUT ALL "F"s WHEN THE SCALE IS PUT ON OVER LOAD.
- . UN1 THROUGH UN0 -> UNIT OF HEIGHT(kg OR lb)
- . BCC -> BLOCK CHECK CHARACTER
BCC IS CREATED BY EXCLUSIVE DREB OF EACH DATA BLOCKS.