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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

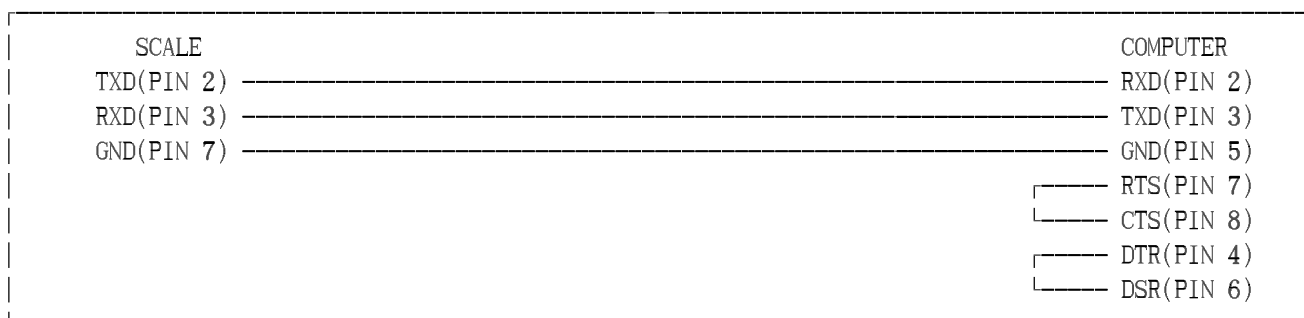
THIS IS HALF-DUPLEX COMMUNICATION RS-232C.

A.1 THE COMMUNICATION AGREEMENTS

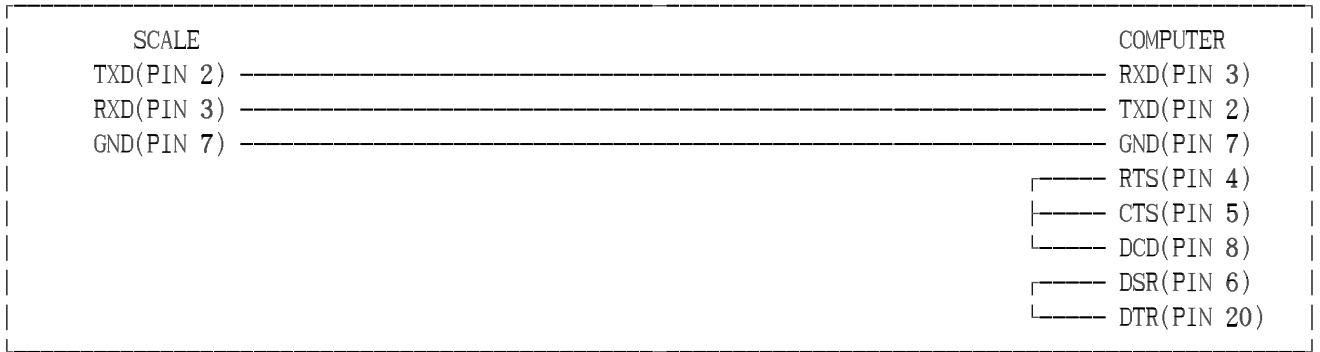
1. BAUD RATE -> 9,600 BPS
2. DATA BIT -> 8 BIT
3. STOP BIT -> 1 BIT
4. PARITY BIT -> NO
5. COMMUNICATION LEVEL -> RS-232C LEVEL
6. DATA FORMAT -> ASCII
7. THE COMMAND DEFINITIONS
 - 6-1. "ENQ" -> 05H
 - 6-2. "ACK" -> 06H
 - 6-3. "NAK" -> 15H
 - 6-4. "SOH" -> 01H
 - 6-5. "STX" -> 02H
 - 6-6. "ETX" -> 03H
 - 6-7. "EOT" -> 04H
 - 6-8. "DC1" -> 11H
 - 6-9. "DC2" -> 12H
 - 6-10. "DC3" -> 13H
 - 6-11. "DC4" -> 14H

A.2 THE WIRE CONNECTIONS

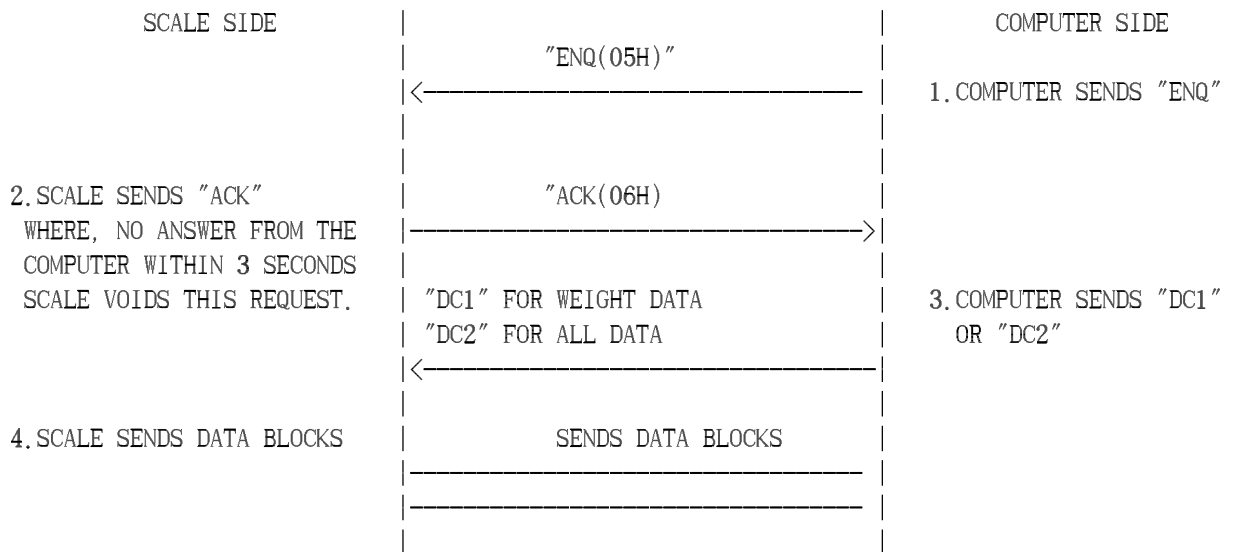
A.2.1 THE WIRE CONNECTIONS OF THE D-SUB 9 PIN CONNECTOR OF A COMPUTER SIDE



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

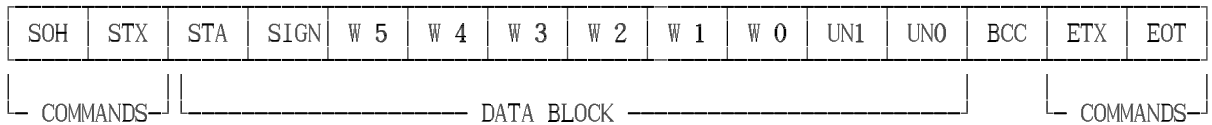


A.3 THE PROTOCOL



A.4. THE DATA TRAINS

1. THE DATA TRAINS FOR THE "DC1"



REMARKS :

- . STA -> A WEIGHING STATUS OF THE SCALE
SCALE IS STABLE -> "S" , UNSTABLE -> "U"
- . SIGN ->SIGN OF THE WEIGHT DATA
ZERO AND POSITIVE WEIGHT -> " " , NEGATIVE WEIGHT -> "-" ,
OVER LOAD -> "F"
- . W5 THROUGH W0 -> WEIGHT DATA
BUT ALL "F"s WHEN THE SCALE IS PUT ON OVER LOAD.
- . UN1 THROUGH UN0 -> UNIT OF WEIGHT(kg OR lb)
- . BCC -> BLOCK CHECK CHARACTER
BCC IS CREATED BY EXCLUSIVE-OR OF A DATA BLOCK.

2. THE DATA TRAINS FOR THE "DC2"

SOH	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	W 5	W 4	W 3	W 2	W 1	W 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	EOT
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REMARKS :

- .STA -> A WEIGHING STATUS OF THE SCALE
SCALE IS STABLE -> "S" , UNSTABLE -> "U"
- .SIGN ->SIGNS OF THE WEIGHT DATA
ZERO AND POSITIVE WEIGHT -> " " , NEGATIVE WEIGHT -> "-" ,
OVER LOAD -> "F"
- .P7 THROUGH P0 -> PRICE DATA
IF THE OVER FLOW IS HAPPEN IN PRICE, ALL "F"s WILL FILL TO DATA BLOCK OF THE PRICE.
- .W5 THROUGH W0 -> WEIGHT DATA
BUT ALL "F"s WHEN THE SCALE IS PUT ON OVER LOAD.
- .UN1 THROUGH UN0 -> UNIT OF WEIGHT(kg OR lb)
- .BCC -> BLOCK CHECK CHARACTER
BCC IS CREATED BY EXCLUSIVE-OR OF EACH DATA BLOCKS.