CHAPTER-VII
THE OTHERS

A. FOR THE SERIAL INTERFACES

THE PROTOCOLS FOR THE CAS STANDARD SERIAL INTERFACE

THIS IS HALF-DUPLEX COMMUNICATION RS-232C.

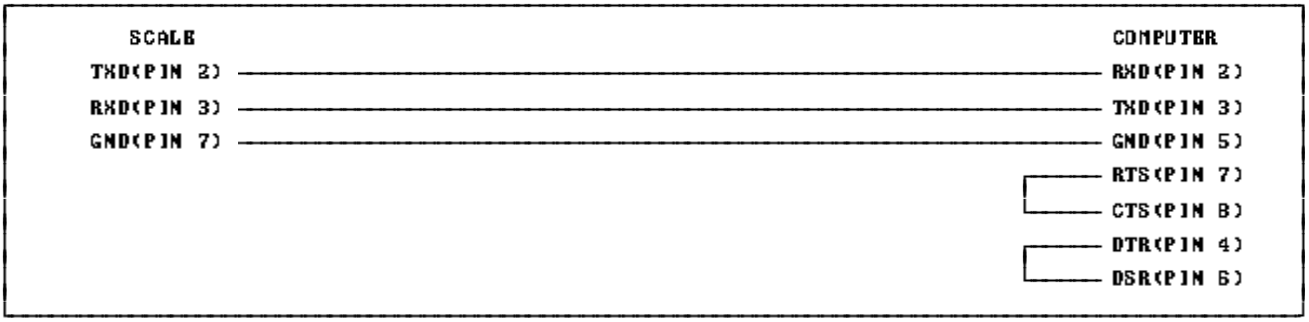
A.1 THE COMMUNICATION AGREEMENTS

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

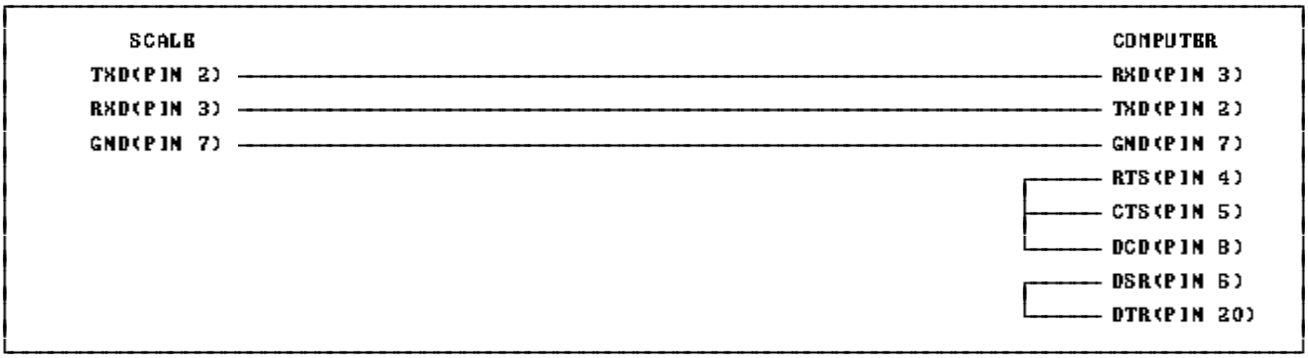
6-1."ENQ" -> 05H	6-7. "EOT" -> 04H
6-2."ACK" -> 06H	6-8. "DC1" -> 11H
6-3."NAK" -> 15H	6-9 "DC2" -> 12H
6-4."SOH" -> 01H	6-10."DC3" -> 13H
6-5."STX" -> 02H	6-11."DC4" -> 14H
6-6."ETX" -> 03H	

A.2 THE WIRE CONNECTIONS

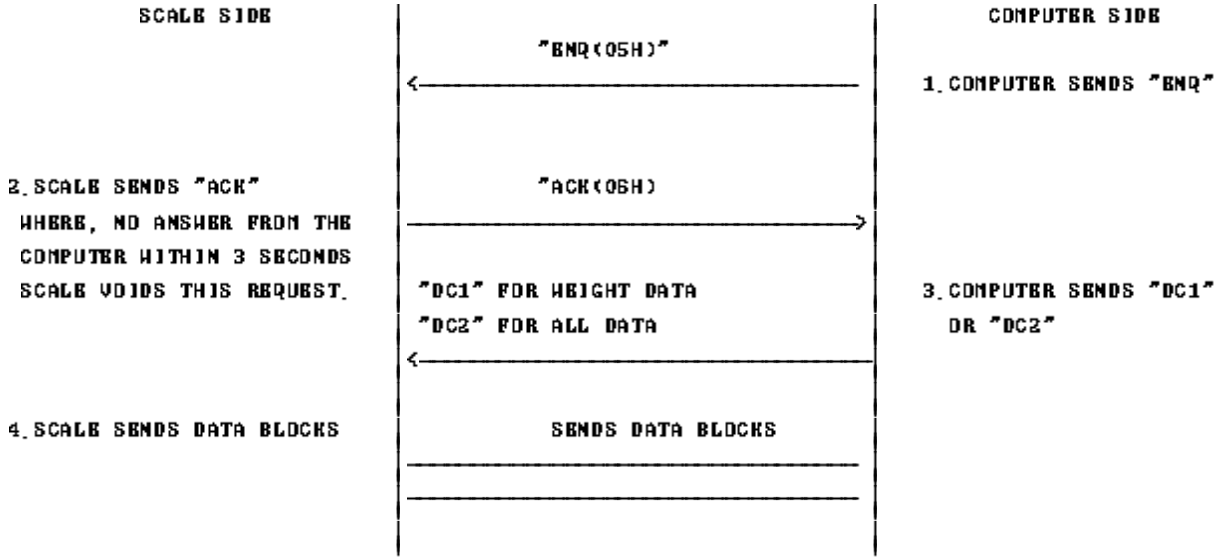
A.2.1 THE WIRE CONNECTIONS OF THE D-SUB 9 PIN CONNECTOR OF A COMPUTER SIDE



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

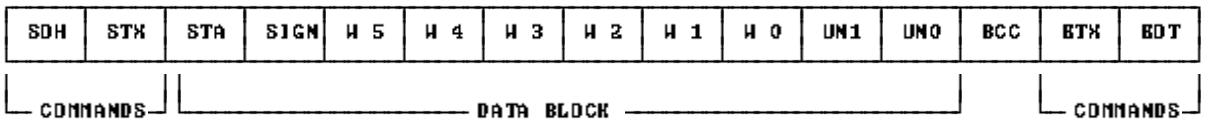


A. 3 THE PROTOCOL



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 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 ORED 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

STX	STA	SIGN	W 5	W 4	W 3	W 2	W 1	W 0	UN1	UN0	BCC	ETX

STX	P 7	P 6	P 5	P 4	P 3	P 2	P 1	P 0	BCC	ETX	EOT

REMARKS ;

.STA -> A WEIGHING STATUS OF THE SCALE
SCALE IS STABLE -> "S" , NOT STABLED -> "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 ORED OF EACH DATA BLOCKS.