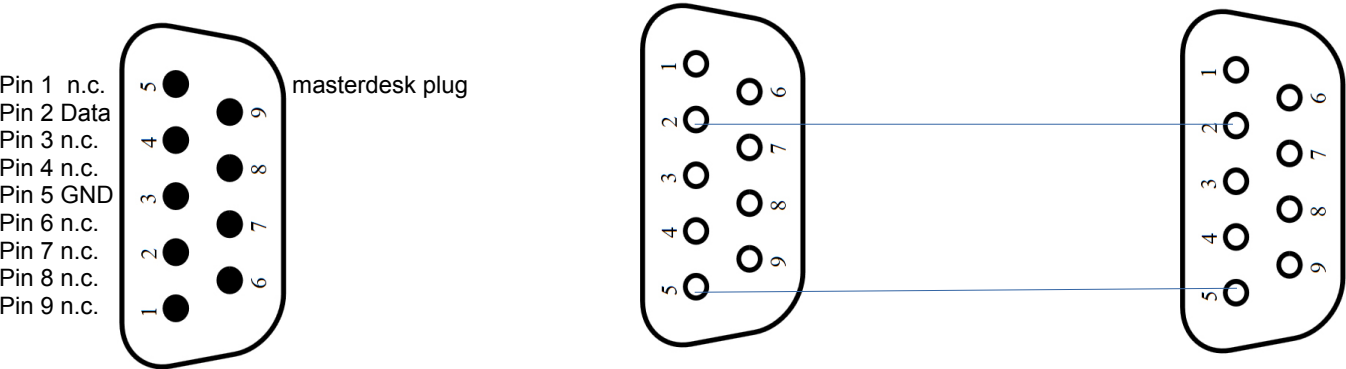```
Data format for Underwater refeering system.
Baudrate: 9600
Data-Bits: 8
Stop-Bits: 1
Parity: None
Data refresh: 250ms
```

**Data transfer to computer (data livestream information)**
Display and Masterdesk are connected with a RS-232 cable.
Only cable with 1 to 1 wiring are allowed. There is no handshake.



```
Pin 1 n.c.                masterdesk plug
Pin 2 Data
Pin 3 n.c.
Pin 4 n.c.
Pin 5 GND
Pin 6 n.c.
Pin 7 n.c.
Pin 8 n.c.
Pin 9 n.c.
```

```
all dada in ASCII

DA15:00R00-0001a___00__00__00__00__00__00(LF)(CR)      linefeed and carriage return at the end
12345678901234567890123456789012345678901
^^                                              DA Startbits
12345678901234567890123456789012345678901
  ^^^^^                                         Actual game time, break time, penalty throw time, timeout …  15:00, 14,59 ...
12345678901234567890123456789012345678901
     ^                                          status of game R= game is running  T= Time out P= penalty throw E= game end, half time break
12345678901234567890123456789012345678901
      ^^                                        goals blue    0-99
12345678901234567890123456789012345678901
        ^^                                      goals white   0-99
12345678901234567890123456789012345678901
          ^^                                    game number 0-99
12345678901234567890123456789012345678901
           ^                                    space = Games with only one halftime, "a" = first halftime, "b" = second halftime

12345678901234567890123456789012345678901
           ^                                    space = no color "b" = blue  "w" = white

12345678901234567890123456789012345678901
              ^          ^                      3x penalty time for 3 blue players _159_030_015      example: 1. 1:59 2. 0:30 3. 0:15   "_" meaning is SPACE
12345678901234567890123456789012345678901
                 ^          ^                   3x penalty time for 3 blue players _159_030_015      example: 1. 1:59 2. 0:30 3. 0:15   "_" meaning is SPACE
```