



TAG Heuer Communication Protocole 08

Display - THDIS08

Update: 17.02.2014

Format 8/N/1 – Standard Baud rate: 9600 baud

Frame structure: **STX NLXXXXXXXX LF**

- STX** = Start of Text (0x02)
- N** = Line number 0..39 , '1'..'9', 'A' + (linea – 10)
- L** = brightness level ('1'..'3')
- X** = characters
- LF** = end of Frame (0x0a)

Character Set:

ABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890\():'.*
-+abcdefghijklmnopqrstuvwxyz

Display Start Light on HL975 MiniDisplay (Start Light)

STX NL§STLpcc LF

- p = Start Light position (1-5)
- cc = Start light colours

Code	Colours
0	Black (LED off)
1	Red
2	Green
3	Yellow
4	Blue
5	Magenta
6	Cyan
7	White
8	Orange
9	Turquoise
10	Rose
11	Light Blue

Display Advertising on Full Matrix Display HL970 / HL975 MiniDisplay (Display mode)

STX NL§PRGxx LF

- xx = advertising nb.



Commands specifics for Modulos

Frame structure

STX CLxxYssss LF

C = Command
L = Brightness
Y = specific command
xx = code
ssss = serial number

Setting Mode

C = "t"
xx = "00" : 4x4 chars per modulos
xx = "01" : 4x3 chars per modulos
xx = "02" : 3x3 chars per modulos
xx = "03" : 3x2 chars per modulos
xx = "04" : 2x2 chars per modulos
xx = "05" : 2x1 chars per modulos
xx = "06" : 1x1 chars per modulos
xx = "07" : 1x0.5 chars per modulos Upper
xx = "08" : 1x0.5 chars per modulos Lower

Y = "S" Show: display the selected option
Y = "Q" Quiet: no feedback for the selected option

Serial number: optional

Setting Horizontal Offset

C = "h"
"00" to "01" : the horizontal offset range for Mode 4x4 and 4x3
"00" to "02" : the horizontal offset range for Mode 3x3 and 3x2
"00" to "03" : the horizontal offset range for Mode 2x2 and 2x1
"00" to "07" : the horizontal offset range for Mode 1x1 and 1x0.5

Y = "S" Show: display the selected option
Y = "Q" Quiet: no feedback for the selected option

Serial number has to be indicated



Setting Vertical Offset

C = "h"

"00" to "09" : the horizontal offset range for Mode 4x4

"00" to "12" : the horizontal offset range for Mode 4x3 and 3x3

"00" to "19" : the horizontal offset range for Mode 3x2 and 2x2

"00" to "39" : the horizontal offset range for Mode 2x1 and 1x1

"00" to "79" : the horizontal offset range for Mode 1x0.5

Y = "S" Show: display the selected option

Y = "Q" Quiet: no feedback for the selected option

Serial number has to be indicated

Calling logo

STX CLxxssss LF

C = "l" (small "L")

"00" : None (Clear screen)

"01" : TAG Heuer Shield

"06" : Chess

"07" : Stop

"08" : Warning

"09" : Start

"10" : Full round

"11" : Cross

ssss: serial number (optional)

Note

Once a logo is called, a clear screen command **must** be performed before printing text.

C = "c" : clearing screen

C = "r" : resetting the module

C = "S" : show : display the serial number and firmware version

ssss: serial number is optional