TAG Heuer CP 705: Data Transmission – Technical Description

1.   General

ON-LINE and OFF-LINE data transmissions from the **COMPUTER port** of the PTB 705 respect the following transmission format. This format always comprises 30 characters + CR under the RS232 protocol at **9600 bds.**

1 or 2	Characters for Data String Identification
3	Characters for ranking or the Nr. or the speed measurement
1	Space
5	Characters for Competitor Number
1	Space
2	Characters for Timing Input Channel
1	Space
15	Characters for Time
1	<CR> = End of Data String

Characters not used in the transmission of any value are replaced with a space.

2.   Data String Identification Characters

S	Creation of a new RUN
T	Time recorded on one of the input channels
R	Calculated Net Time for a Competitor
G	Cumulative Net Time for a Competitor after multiple runs
V	Speed
T-	False Start or False Finish (time disassociated)
T*	Any time modified through manipulation of start number
T+	Any time used if manually input using RECALL - INSERT
T=	Any duplicated time using FUNCTION - DUPLICATE
TA	DNF (Did not Finish)
TD	DSQ (Disqualified)
TC	Any discarded time rejected using FUNCTION-RECALL-CANCEL or "0# in RECALL

3   Examples of Data Strings produced by the CP 705

Example below: Start of Run 4 under Alpine Ski. The last 3 characters to the right of "ALPINE SKI" show which preceding run is being used to add to net times being generated in this Run #4. In our example here, Run #3 is used. This indication occurs only in OFF-LINE data transmission mode.
S 004   ALPINE SKI 003<CR>

Times taken for Competitor #2 on input channels 1 and 4 (Manually)
T   2 M1 09:09:15.608778<CR>
T   2 M4 09:09:27.277816<CR>

Net time for Competitor #2, ranked in position 1 for run number 4 at 11.67 seconds.
Followed by a cumulative time for run#3 and #4 of 2:41.39
R   1 2   11.670000<CR>
G   1 2   2.41.390000<CR>

Speed Calculation for Competitor #1
V   1   317.903 [km/h]<CR>

1.   Distinctive Characters Placed at the Start of Times Printed or Transmitted to PC

-        False Start of False Finish (disassociated times)
*   Competitor Number Modified with this time
+   Manually Entered Time using RECALL-INSERT
=   Duplicated Time using FUNCTION-DUPLICATE
A   DNF, Did not Finish
D   DSQ, Disqualified
C   Any discarded time rejected using FUNCTION-RECALL-CANCEL or "0# in RECALL

2.   Keyboard Shortcuts

General
F + ON   Rapid Start-Up
F   FUNCTION menu call-up
F again   Returns to the previous menu when in any FUNCTION mode
M   Switches between MANUAL or AUTO(matic) finish numbering
⇑ ⇓   Keys to move through the data screens, up or down
F + R   Quickly calls-up the RECALL menu.

Left Keyboard
C #   False Start
No. C #   Disassociates start time from selected bib number
C *   Selects the next starting number in the start list by eliminating the one proposed
N #   Selects the Competitor Number being input
R   Accesses file of non-associated start times in a Fin – Fout file
R again   Returns to the previous menu or function when in the start time file
*   Error Correction

Right Keyboard
C #   False Finish
No. C #   Disassociates finish time from selected bib number
C *   Selects the next Finishing number of those on course by eliminating the one proposed
N #   Selects the Competitor Number being input
R   Accesses file of non-associated finish times in a Fin – Fout file
R again   Returns to the previous menu or function when in the Finish time file
*   Error Correction
0   #   Discards times selected under RECALL