**SERIAL PORT FUNCTION**

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| **PORT** | **RS** | **SIGNAL** | **MAIN FUNCTION** | **OTHER FUNCTION** |
| PORT 1 | 422 | GUN RECEIVE | COMMAND :   1. TR ANGLE 2. EL ANGLE 3. TR SPEED 4. EL SPEED |  |
| GUN TRANSMIT | TELLBACK :   1. EL ANGLE |  |
| PORT2 | 422 | GUN RECEIVE | No function |  |
| GUN TRANSMIT | TELLBACK :   1. TR ANGLE |  |
| PORT3 | 232 | GUN RECEIVE | No function |  |
| GUN TRANSMIT | GUN STATUS |  |
| PORT4 | 232 | GUN RECEIVE | GUN CONTROL |  |
| GUN TRANSMIT | No function | TELLBACK :   1. TR SPEED 2. EL SPEED |

SERIAL YG DIGUNAKAN : 115200-8-N-1

Baudrate : 115200

Data Bits : 8

Parity : None

Stop bits : 1

|  |  |  |  |
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| **FORMAT DATA** | | **PORT** | **FUNCTION** |
| **VERSI LAMA** | **VERSI BARU** |
| $GSPOM | $DOPOS | Send to PORT1 | GUN POSITION COMMAND |
| $GSCOM | $DOCMD | send PORT4 | GUN CONTROL |
| $GSSOM | $GUSTA | receive from PORT3 | GUN STATUS |
| $GSTOM | $GUTLB | receive from PORT2 | TELLBACK TR & EL ANGLE |

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| **$DOPOS,123.456,123.456, 123.456,123.456\*hh**  1 2 3 4 5  1: Traning Angle  2: Elevation Angle  3 : Training Speed  4 : Elevation Speed  5 : Checksum |
| **$DOCMD,0,0,0,0,0,0\*hh**  1 : Mount on/off  2 : Single shot/burst  3 : Fire rrder  4 : Not fire order  5 : Paralizing proximity fuze  6 : Checksum |

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| --- |
| **$GUSTA,0,0,0,0,0,0,0,0,0,0\*hh**  1 : Op mod  2 : Remote  3 : Mnt on/off  4 : Btemp  5 : Grtst  6 : Grtfr  7 : Firmod  8 : Blarc  9 : Misalgn  10 : Magazine  11 : Checksum |
| **$GUTLB,123.456,123.456\*hh**  1 2 3  1: Traning Angle  2 : Elevation Angle  3 : Checksum |

**PERBANDINGAN FORMAT DATA DORNA DAN KONDISI REAL DI MERIAM 120mm**

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| --- | --- | --- | --- |
| **GUN STATUS** | | **GUN CONTROL** | |
| **DORNA** | **MERIAM 120mm** | **DORNA** | **MERIAM 120mm** |
| OPMOD | x | MOUNT ON/OFF | x |
| REMOTE | REMOTE/LOCAL | SINGLE SHOT / BURST | SINGLE/AUTOMATIC FIRE |
| MNT ON/OFF | x | FIRE ORDER | FIRING BUTTON |
| BTEMP | x | NOT FIRE ORDER | x |
| GRTST | x | x | PARALIZING PROXIMITY FUZE |
| GRTF | x | x | SIREN BUTTON |
| FIRMOD | RAMMED ROUND NOT FIRED |  |  |
| BLARC | x |  |  |
| MISALGN | x |  |  |
| x | RIGHT/LEFT MAGAZINE |  |  |