
GNS 5892R ADS-B module

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ADS-B data reception example (mode 2)

In case of ADS-B mode 2 (reception of all DF-Data) the 56bit or 112bit raw data frames are output as 14 bytes ASCII frames , or 7 bytes ASCII frames, MSB first.

Every ASCII frame begins with an '*' and is finished by ';' + <CR><LF>.

*8D.... is DF18 **Extended squitter**

*5D.... is DF11 **All-call reply**

...
*8D4B1621994420C18804887668F9;
*02E1991058EF31;
*20000CB10D89FB;
*20001196553C25;
*02E198BFAF8676;
*02C18CB14E2D98;
*02E198BFAF8676;
*200015301CB296;
*20000F971E4582;
*200015B3EF4577;
*583E1BDABC2735;
*280008006C738F;
*8D4CA27A608145305B0B09EAD8B5;
*02E19838575F0A;
*A0001014BC900030A8000038ED68;
*200015301CB296;
*8D400A6658AB0540C701D9CA672E;
*02001690DD3BEE;
*0281861FAE97F2;
*A0001838FFDCE52FA004DFDD1EAA;
*A0001196FE963F3EBFF4DEE49B7C;
*A0000CB0958000316C00004D38CA;
*8D3C66059944B824985400CD3182;
*02E1941016FC9E;
*02061690F1CB68;
*8D400B839911DA8B400490F465E9;
*02C60CB069E472;
*8D40041B90C381906B8516503C0B;
*5D3C5961BAAB6C;
*02E198BFAF8589;
*02E19218468AE;
.....

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ADS-B data reception example (mode 2+)

In case of ADS-B mode 2+ (reception of all DF-Data with additional Signal Strength Indicator) the 56bit or 112bit raw data frames are output as 15 bytes ASCII frames , or 8 bytes ASCII frames, MSB first.

Every ASCII frame begins with an '#' and is finished by ';' + <CR><LF>.

The first byte following the '#' is the signal strength indicator of the current ADS-B frame.

The following bytes represent the received ADS-B data.

```
#1B5D3DDDD1707EA1;
#1AA800023AC4600030A80000FB50EB;
#1A80E1969158B51233C9445A63D2C7;
#1CA00002340008D70AFFC800EB0AEC;
#1BA00002340008D70AFFC800EB0AEC;
#1A80E1969158B51233C544583A3DD0;
#1B5D3DDDD1707EA1;
#1A5DC03ABCB09F16;
#1B020502344DA06C;
#1BA0000234200903F2CA0820AD4526;
#19A0001691FA81C100000000BBB0E0;
#1A200016917CBBF2;
#1A200016917CBBF2;
#19A0001691FA81C100000000BBB0E0;
#1A02E61691A25E5B;
#1A5DC03ABCB09F16;
#1902E196917A63B8;
#185D3CCD4B9AF88F;
#1B20000234A0B9D0;
#1A20000234A0B9D0;
#1AA0001691C4600030A80000EBA589;
#1A8DC03ABC58B51233A9445A329207;
#1AA800023AC4600030A80000FB50EB;
#1AA0001691AA4A1331201400F416FB;
#1A8DC03ABC9901939CA00706079C17;
#195DC03ABCB09F1C;
...
```

Important note

The Signal Strength Indicator preceded by the data is only an indicator of the field strength of the received frame and not a measured value from which the distance to the transmitter can be derived. The range of the value is approximately between 0x18(far distance signals) and 0x2d (near distance signals).