

# RTCM reception on 3011 Heading Sensor

Receiver firmware version has to be **V20033**.

This give you the way to set up receiver using TRM100 Hardware or PC Software

In this example, A port is used to receive digital RTCM Type 1 and 3.

Port B , C or Aux port (Port D) can also be used

# Set A Port to correct Baud rate

1

Mar 11 2003	GPS	Q. 3	TD**/**s
UTC 08:30:42	HDG	1/3	09/09SVs
WGS84			
47°17.94048N			
001°30.54676W			
MSL84	32.4 <sub>m</sub>	HDG_T	185.4°
SOG	0.0 <sub>KT</sub>	COG	***.°
NAVIG	DGNSS	AUX	WPT-RTE MARK

2

Mar 11 2003	DGPS	Q. 9	TD08/01s
UTC 08:58:09	HDG		08/10SVs
47°17.94041N	WGS84		0.0KT
001°30.54632W	28.3m	HDG	185.6°
/MAIN/AUX			
<-- INIT VERSION IN-OUTP >>>			

3

Mar 11 2003	DGPS	Q. 9	TD08/01s
UTC 09:00:12	HDG		08/10SVs
47°17.94040N	WGS84		0.0KT
001°30.54649W	29.0m	HDG	186.7°
/MAIN/AUX/IN-OUTP			
<-- TEST PORTS OUTPUT >>>			

4

Mar 11 2003	GPS	Q. 3	TD**/**s	
UTC 12:32:37	HDG		10/10SVs	
47°17.94031N	WGS84		0.0KT	
001°30.54634W	24.1m	HDG	186.5°	
/MAIN/AUX/IN-OUTP/PORTS				
Port	Baud	DataBit	Parity	StopBit
A	9600	8	N	1
B	38400	8	N	1
C	19200	8	N	1
D	19200	8	N	1
<--		<<<	>>>	OK

# RTCM receiver setup

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Mar 11 2003	GPS	Q. 3	TD**/**s
UTC 08:30:42	HDG	1/3	09/09SVs
WGS84	47°17.94048N		
	001°30.54676W		
MSL84	32.4 <sub>m</sub>	HDG_T	185.4°
SOG	0.0 <sub>KT</sub>	COG	***.°
NAVIG	DGNSS	AUX	WPT-RTE MARK

6

Mar 11 2003	GPS	Q. 3	TD**/**s				
UTC 08:36:36	HDG	1/2	08/10SVs				
47°17.93967N	WGS84	0.0KT					
001°30.54675W	29.7m	HDG	186.2°				
/MAIN/DGNSS							
GPS MODE : Primary							
No.	Station	Com	Fmt	Svs	Ag	Ref	U
<--		MODE	BEACON	MSGES			

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Mar 11 2003	GPS	Q. 3	TD**/**s	
UTC 08:40:47	HDG		08/10SVs	
47°17.93947N	WGS84		0.0KT	
001°30.54689W	29.3m	HDG	185.7°	
/MAIN/DGNSS/MODE				
SOURC	PORT	STATION	USED	
GPS	-	.	HDG	U
WAAS	-	.	.	N/U
NUM1	D	.	.	N/U
NUM2	-	.	.	N/U
OPEN	-	.	.	N/U
<--	N. LINE	<<<	>>>	OK

RTCM signal received on

A Port is used

in DGPS

Mar 11 2003	GPS	Q. 3	TD**/**s
UTC 12:39:46	HDG		10/10SVs
47°17.94039N	WGS84		0.0KT
001°30.54630W	25.1m	HDG	185.3°
/MAIN/DGNSS/MODE			
SOURC	PORT	STATION	USED
GPS	-	.	HDG
WAAS	-	.	N/U
NUM1	A	12	DGPS
NUM2	-	.	N/U
OPEN	-	.	N/U
1			
<-	INIT	<<<	>>>
OK			
2			

8

OR

Open Mode in DGPS

Any RTCM signal is used

from any Port (If correct Baud rate)

Mar 11 2003	DGPS	Q. 9	TD08/02s
UTC 14:03:18	HDG		06/08SVs
47°17.94165N	WGS84		0.0KT
001°30.54841W	27.0m	HDG	186.7°
/MAIN/DGNSS/MODE			
SOURC	PORT	STATION	USED
GPS	-	.	HDG
WAAS	-	.	N/U
NUM1	-	.	N/U
OPEN	-	.	DGPS
1			
<-	N. LINE	<<<	>>>
OK			
2			

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Mar 11 2003	DGPS	Q. 9	TD06/23s
UTC 14:45:11	HDG	<->	06/08SVs
47°17.94004N	WGS84		0.0KT
001°30.54642W	30.3m	HDG	185.4°
/MAIN/DGNSS			
DGPS MODE : Primary			
No.	Station	Com	Fmt Svs Ag Ref
****		A	RTCM 6 22 12 x
1			
<-	MODE	BEACON	MSGES

A cross appears when  
received and used