

MARU 220 DVOR

Main Status	Site	SLO	Active TX	TX1
	Date	Wed Jan 14 2026 14:00:23		

\$¹ TX Configuration		TX1	TX2
Status		NORMAL	NORMAL
Operating Frequency	116.30MHz	116.30MHz	116.30MHz
IDENT Code	SLO	SLO	SLO
CARRIER Output Power	90.0W	105.0W	
USB SIN Output Power	2.20W	1.80W	
USB COS Output Power	2.20W	1.80W	
LSB SIN Output Power	2.20W	1.80W	
LSB COS Output Power	2.20W	1.80W	
30Hz AM Modulation Depth	29.5%	30.0%	
1020Hz AM Modulation Depth	7.0%	7.0%	
Voice AM Modulation Depth	0.0%	0.0%	
Sideband RF Phase Offset	0.0degs	80.0degs	
Azimuth Offset	2.0degs	2.5degs	

\$¹ MON Major Measurement		MON1	MON2
Status		NORMAL	NORMAL
IDENT Code	SLO	SLO	SLO
CARRIER Frequency	116.3010MHz	116.3009MHz	
USB Frequency	116.3110MHz	116.3108MHz	
LSB Frequency	116.2909MHz	116.2907MHz	
CARRIER Output Power	108.5W	108.8W	
RF Input Level	-11.3dBm	-11.1dBm	
Azimuth	2.8degs	3.3degs	
9960Hz FM Index	16.0	16.0	
30Hz AM Modulation Depth	30.4%	30.0%	
9960Hz AM Modulation Depth	29.8%	29.1%	
1020Hz AM Modulation Depth	7.2%	7.1%	

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Transmitter	Site	SLO	Active TX	TX1
	Date	Wed Jan 14 2026 14:00:23		

<u>§¹ General Status</u>	TX1	TX2
Status	NORMAL	NORMAL
<u>§¹ SYN PLL Status</u>	TX1	TX2
Operating Frequency	116.30MHz	116.30MHz
Carrier PLL Lock	Normal	Normal
USB PLL Lock	Normal	Normal
LSB PLL Lock	Normal	Normal
<u>§¹ IDENT</u>	TX1	TX2
IDENT Code	SLO	SLO
IDENT Mode	Master	Master
IDENT Keying	ON	ON
<u>§¹ Output Power</u>	TX1	TX2
CARRIER	90.0W	105.0W
USB SIN	2.20W	1.80W
USB COS	2.20W	1.80W
LSB SIN	2.20W	1.80W
LSB COS	2.20W	1.80W
<u>§¹ AM Modulation Depth</u>	TX1	TX2
30Hz	29.5%	30.0%
1020Hz	7.0%	7.0%
Voice	0.0%	0.0%
<u>§¹ Sideband RF Phase</u>	TX1	TX2
Phase Offset	0.0degs	80.0degs
<u>§¹ Azimuth Adjustment</u>	TX1	TX2
Azimuth Offset	2.0degs	2.5degs
<u>§¹ Modulation Control</u>	TX1	TX2
CARRIER	ON	ON
Sideband	ON	ON
<u>§¹ Power Amp Control</u>	TX1	TX2
CPA	ON	OFF
USB SBA	ON	OFF
LSB SBA	ON	OFF
<u>§¹ Antenna Control</u>	TX1	TX2
Control Mode	Normal	Normal
<u>§¹ Temperature</u>	TX1	TX2
CPA Temperature	39.0degs	22.0degs
MSG Temperature	38.0degs	37.5degs

MARU 220 DVOR				
Monitor	Site	SLO	Active TX	TX1
	Date	Wed Jan 14 2026 14:00:23		

<u>§¹ General Status</u>		MON1	MON2
Status		NORMAL	NORMAL
<u>§¹ Major Measurement</u>		MON1	MON2
IDENT Code		SLO	SLO
CARRIER Frequency	116.3010MHz	116.3009MHz	
USB Frequency	116.3110MHz	116.3108MHz	
LSB Frequency	116.2909MHz	116.2907MHz	
CARRIER Output Power	108.5W	108.8W	
RF Input Level	-11.3dBm	-11.1dBm	
Azimuth	2.8degs	3.3degs	
9960Hz FM Index	16.0	16.0	
30Hz AM Modulation Depth	30.4%	30.0%	
9960Hz AM Modulation Depth	29.8%	29.1%	
1020Hz AM Modulation Depth	7.2%	7.1%	
<u>§¹ MON Test Signal Generator</u>		MON1	MON2
TSG 30Hz AM Modulation Depth	30.3%	30.1%	
TSG 9960Hz AM Modulation Depth	30.3%	30.0%	
TSG 9960Hz FM Index	15.7	15.9	
TSG Azimuth	179.7degs	179.7degs	
<u>§¹ Voltage Measurements</u>		MON1	MON2
TX1 +5V	4.9V	5.0V	
TX1 +7V	7.0V	7.0V	
TX1 +15V	14.9V	14.9V	
TX1 +28V	27.9V	27.9V	
TX1 -15V	-15.0V	-15.1V	
TX2 +5V	4.9V	5.0V	
TX2 +7V	7.1V	7.1V	
TX2 +15V	15.0V	15.0V	
TX2 +28V	28.1V	28.1V	
TX2 -15V	-15.0V	-15.0V	
<u>§¹ SIDEBAND Output Power (From MSG)</u>		TX1	TX2
USB SIN Output Power	2.12W	-	
USB COS Output Power	2.16W	-	
LSB SIN Output Power	2.23W	-	
LSB COS Output Power	2.27W	-	

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MON Alarm Limit	Site	SLO	Active TX	TX1
	Date	Wed Jan 14 2026 14:00:23		

‡¹ MONITOR1		LOWER	UPPER
TX1 CARRIER Frequency		116.2900MHz	116.3100MHz
TX2 CARRIER Frequency		429496.7295MHz	118.1000MHz
TX1 USB Frequency		116.3000MHz	116.3200MHz
TX2 USB Frequency		429496.7295MHz	118.1500MHz
TX1 LSB Frequency		116.2800MHz	116.3000MHz
TX2 LSB Frequency		429496.7295MHz	118.0500MHz
TX1 CARRIER Output Power		80.0W	120.0W
TX2 CARRIER Output Power		6553.5W	120.0W
TX1 RF Input Level		-20.0dBm	0.0dBm
TX2 RF Input Level		-0.1dBm	-0.1dBm
TX1 Azimuth		2.2degs	4.2degs
TX2 Azimuth		0.0degs	6553.5degs
TX1 9960Hz FM Index		15.0	17.0
TX2 9960Hz FM Index		6553.5	20.0
TX1 30Hz AM Mod. Depth		28.0%	32.0%
TX2 30Hz AM Mod. Depth		6553.5%	40.0%
TX1 9960Hz AM Mod. Depth		28.0%	32.0%
TX2 9960Hz AM Mod. Depth		6553.5%	40.0%
TX1 1020Hz AM Mod. Depth		9.0%	5.0%
TX2 1020Hz AM Mod. Depth		40.0%	6553.5%
TSG 30Hz AM Mod. Depth		28.0%	32.0%
TSG 9960Hz AM Mod. Depth		28.0%	32.0%
TSG 9960Hz FM Index		15.0	17.0
TSG Azimuth		179.0	181.0
TX +5V		3.0V	7.0V
TX +7V		5.0V	9.0V
TX +15V		13.0V	17.0V
TX +28V		26.0V	30.0V
TX -15V		-17.0V	-13.0V
‡¹ MONITOR2		LOWER	UPPER
TX1 CARRIER Frequency		116.2900MHz	116.3100MHz
TX2 CARRIER Frequency		429496.7295MHz	118.1000MHz
TX1 USB Frequency Lower Limit		116.3000MHz	116.3200MHz
TX2 USB Frequency Lower Limit		429496.7295MHz	118.1500MHz
TX1 LSB Frequency		116.2800MHz	116.3000MHz
TX2 LSB Frequency		429496.7295MHz	118.0500MHz
TX1 CARRIER Output Power		80.0W	120.0W
TX2 CARRIER Output Power		6553.5W	120.0W
TX1 RF Input Level Lower Limit		-20.0dBm	0.0dBm
TX2 RF Input Level Lower Limit		-0.1dBm	-0.1dBm
TX1 Azimuth		2.2degs	4.2degs
TX2 Azimuth		0.0degs	6553.5degs
TX1 9960Hz FM Index		15.0	17.0
TX2 9960Hz FM Index		6553.5	20.0
TX1 30Hz AM Mod. Depth		28.0%	32.0%
TX2 30Hz AM Mod. Depth		6553.5%	40.0%
TX1 9960Hz AM Mod. Depth		28.0%	32.0%
TX2 9960Hz AM Mod. Depth		6553.5%	40.0%
TX1 1020Hz AM Mod. Depth		5.0%	9.0%

TX2 1020Hz AM Mod. Depth	6553.5%	40.0%
TSG 30Hz AM Mod. Depth	28.0%	32.0%
TSG 9960Hz AM Mod. Depth	28.0%	32.0%
TSG 9960Hz FM Index	15.0	17.0
TSG Azimuth	179.0	181.0
TX +5V	3.0V	7.0V
TX +7V	5.0V	9.0V
TX +15V	13.0V	17.0V
TX +28V	26.0V	30.0V
TX -15V	-17.0V	-13.0V

MARU 220 DVOR

MISC	Site	SLO	Active TX	TX1
	Date	Wed Jan 14 2026 14:00:23		

‡¹ Communication

- LCU ;é MON1 : Normal
- LCU ;é MON2 : Normal
- LCU ;é MSG1 : Normal
- LCU ;é MSG2 : Normal

‡¹ Unit

- CMA1 : Normal
- USB SMA1 : Normal
- LSB SMA1 : Normal
- CMA2 : Normal
- USB SMA2 : Normal
- LSB SMA2 : Normal

- MSG1 : Normal
- MSG2 : Normal
- MON1 : Normal
- MON2 : Normal
- LCU : Normal

- AC/DC1 : Normal
- AC/DC2 : Normal
- DC/DC1 : Normal
- DC/DC2 : Normal
- BATTERY1 : Normal
- BATTERY2 : Normal

‡¹ DC/DC Status

	Voltage	Current
- DC +5V	5.3 V	1.3 A
- DC +7V	7.3 V	1.2 A
- DC +15V	15.1 V	0.0 A
- DC +28V	26.6 V	15.3 A
- DC -15V	-13.9 V	0.0 A

‡¹ AC/DC Status

	Voltage	Current
- AC +28V	26.7 V	11.9 A

‡¹ Battery Status

	Voltage	Current
- Battery +24V	26.2 V	0.0 A

‡¹ Shelter

- Door : Closed
- Fire Alarm : Normal
- Ambient Temperature : -188.1

‡¹ Version Info

	Serial No.	System Version	SW Version
- LCU	2.00	1.13.302	
- MSG1	1.00	1.13.0201	
- MSG2	1.00	1.13.0201	
- MON1	1.00	1.13.0448	
- MON2	1.00	1.13.0448	