

MARU 220 DVOR

Main Status	Site	SLO	Active TX	TX1
	Date	Thu Jan 08 2026 13:27:47		

ç¹ TX Configuration	TX1	TX2
Status	NORMAL	NORMAL
Operating Frequency	116.30MHz	116.30MHz
IDENT Code	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

ç¹ MON Major Measurement	MON1	MON2
Status	NORMAL	NORMAL
IDENT Code	SLO	SLO
CARRIER Frequency	116.3009MHz	116.3006MHz
USB Frequency	116.3109MHz	116.3106MHz
LSB Frequency	116.2909MHz	116.2905MHz
CARRIER Output Power	108.3W	108.5W
RF Input Level	-11.2dBm	-11.0dBm
Azimuth	3.0degs	3.2degs
9960Hz FM Index	15.9	15.9
30Hz AM Modulation Depth	30.5%	30.0%
9960Hz AM Modulation Depth	29.7%	29.1%
1020Hz AM Modulation Depth	7.3%	7.1%

MARU 220 DVOR

Transmitter	Site	SLO	Active TX	TX1
	Date	Thu Jan 08 2026 13:27:47		

ç¹ General Status	TX1	TX2
Status	NORMAL	NORMAL
ç¹ SYN PLL Status	TX1	TX2
Operating Frequency	116.30MHz	116.30MHz
Carrier PLL Lock	Normal	Normal
USB PLL Lock	Normal	Normal
LSB PLL Lock	Normal	Normal
ç¹ IDENT	TX1	TX2
IDENT Code	SLO	SLO
IDENT Mode	Master	Master
IDENT Keying	ON	ON
ç¹ Output Power	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
ç¹ AM Modulation Depth	TX1	TX2
30Hz	29.5%	30.0%
1020Hz	7.0%	7.0%
Voice	0.0%	0.0%
ç¹ Sideband RF Phase	TX1	TX2
Phase Offset	0.0degs	80.0degs
ç¹ Azimuth Adjustment	TX1	TX2
Azimuth Offset	2.0degs	2.5degs
ç¹ Modulation Control	TX1	TX2
CARRIER	ON	ON
Sideband	ON	ON
ç¹ Power Amp Control	TX1	TX2
CPA	ON	OFF
USB SBA	ON	OFF
LSB SBA	ON	OFF
ç¹ Antenna Control	TX1	TX2
Control Mode	Normal	Normal
ç¹ Temperature	TX1	TX2
CPA Temperature	39.0degs	20.5degs
MSG Temperature	34.5degs	34.0degs

MARU 220 DVOR

Monitor	Site	SLO	Active TX	TX1
	Date	Thu Jan 08 2026 13:27:47		

ç¹ General Status	MON1	MON2
Status	NORMAL	NORMAL
ç¹ Major Measurement	MON1	MON2
IDENT Code	SLO	SLO
CARRIER Frequency	116.3009MHz	116.3006MHz
USB Frequency	116.3109MHz	116.3106MHz
LSB Frequency	116.2909MHz	116.2905MHz
CARRIER Output Power	108.3W	108.5W
RF Input Level	-11.2dBm	-11.0dBm
Azimuth	3.0degs	3.2degs
9960Hz FM Index	15.9	15.9
30Hz AM Modulation Depth	30.5%	30.0%
9960Hz AM Modulation Depth	29.7%	29.1%
1020Hz AM Modulation Depth	7.3%	7.1%
ç¹ MON Test Signal Generator	MON1	MON2
TSG 30Hz AM Modulation Depth	30.4%	30.1%
TSG 9960Hz AM Modulation Depth	30.2%	30.0%
TSG 9960Hz FM Index	15.7	15.9
TSG Azimuth	179.8degs	179.8degs
ç¹ Voltage Measurements	MON1	MON2
TX1 +5V	4.9V	5.0V
TX1 +7V	7.0V	7.0V
TX1 +15V	14.9V	14.9V
TX1 +28V	27.9V	28.0V
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
ç¹ SIDEBAND Output Power (From MSG)	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	-

MARU 220 DVOR

MON Alarm Limit	Site	SLO	Active TX	TX1
	Date	Thu Jan 08 2026 13:27:47		

ç¹ 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

ç¹ 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	Thu Jan 08 2026 13:27:47		

ç¹ Communication

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

ç¹ 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

ç¹ DC/DC Status

Voltage

Current

- DC +5V	5.3 V	1.2 A
- DC +7V	7.3 V	1.1 A
- DC +15V	14.9 V	0.0 A
- DC +28V	26.5 V	18.8 A
- DC -15V	-13.9 V	0.0 A

ç¹ AC/DC Status

Voltage

Current

- AC +28V	27.0 V	9.9 A
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ç¹ Battery Status

Voltage

Current

- Battery +24V	26.0 V	0.0 A
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ç¹ Shelter

- Door	: Closed
- Fire Alarm	: Normal
- Ambient Temperature	: -109.3

ç¹ 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