

# MARU 220 DVOR

Main Status	Site	SLO	Active TX	TX2
	Date	Thu Jan 15 2026 00:59:50		

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	BYPASSED	BYPASSED
IDENT Code	SLO	SLO
CARRIER Frequency	116.3007MHz	116.3006MHz
USB Frequency	116.3109MHz	116.3108MHz
LSB Frequency	116.2908MHz	116.2905MHz
CARRIER Output Power	93.6W	94.0W
RF Input Level	-11.8dBm	-11.7dBm
Azimuth	3.2degs	3.3degs
9960Hz FM Index	16.0	16.0
30Hz AM Modulation Depth	31.2%	30.7%
9960Hz AM Modulation Depth	30.7%	30.6%
1020Hz AM Modulation Depth	7.2%	7.2%

# MARU 220 DVOR

Transmitter	Site	SLO	Active TX	TX2
	Date	Thu Jan 15 2026 00:59:50		

ç <sup>1</sup> General Status	TX1	TX2
Status	NORMAL	NORMAL
ç <sup>1</sup> 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
ç <sup>1</sup> IDENT	TX1	TX2
IDENT Code	SLO	SLO
IDENT Mode	Master	Master
IDENT Keying	ON	ON
ç <sup>1</sup> 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
ç <sup>1</sup> AM Modulation Depth	TX1	TX2
30Hz	29.5%	30.0%
1020Hz	7.0%	7.0%
Voice	0.0%	0.0%
ç <sup>1</sup> Sideband RF Phase	TX1	TX2
Phase Offset	0.0degs	80.0degs
ç <sup>1</sup> Azimuth Adjustment	TX1	TX2
Azimuth Offset	2.0degs	2.5degs
ç <sup>1</sup> Modulation Control	TX1	TX2
CARRIER	ON	ON
Sideband	ON	ON
ç <sup>1</sup> Power Amp Control	TX1	TX2
CPA	OFF	ON
USB SBA	OFF	OFF
LSB SBA	OFF	ON
ç <sup>1</sup> Antenna Control	TX1	TX2
Control Mode	Normal	Normal
ç <sup>1</sup> Temperature	TX1	TX2
CPA Temperature	23.0degs	39.5degs
MSG Temperature	37.5degs	38.0degs

# MARU 220 DVOR

Monitor	Site	SLO	Active TX	TX2
	Date	Thu Jan 15 2026 00:59:50		

ç¹ General Status	MON1	MON2
Status	BYPASSED	BYPASSED
ç¹ Major Measurement	MON1	MON2
IDENT Code	SLO	SLO
CARRIER Frequency	116.3007MHz	116.3006MHz
USB Frequency	116.3109MHz	116.3108MHz
LSB Frequency	116.2908MHz	116.2905MHz
CARRIER Output Power	93.6W	94.0W
RF Input Level	-11.8dBm	-11.7dBm
Azimuth	3.2degs	3.3degs
9960Hz FM Index	16.0	16.0
30Hz AM Modulation Depth	31.2%	30.7%
9960Hz AM Modulation Depth	30.7%	30.6%
1020Hz AM Modulation Depth	7.2%	7.2%
ç¹ MON Test Signal Generator	MON1	MON2
TSG 30Hz AM Modulation Depth	30.5%	30.1%
TSG 9960Hz AM Modulation Depth	30.3%	30.0%
TSG 9960Hz FM Index	15.7	15.9
TSG Azimuth	180.0degs	179.8degs
ç¹ Voltage Measurements	MON1	MON2
TX1 +5V	4.9V	5.0V
TX1 +7V	7.2V	7.1V
TX1 +15V	14.9V	14.9V
TX1 +28V	28.1V	28.1V
TX1 -15V	-15.0V	-15.0V
TX2 +5V	4.9V	4.9V
TX2 +7V	7.0V	7.0V
TX2 +15V	15.0V	15.0V
TX2 +28V	28.0V	27.9V
TX2 -15V	-15.0V	-15.0V
ç¹ SIDEBAND Output Power (From MSG)	TX1	TX2
USB SIN Output Power	-	2.16W
USB COS Output Power	-	2.13W
LSB SIN Output Power	-	2.14W
LSB COS Output Power	-	2.25W

# MARU 220 DVOR

MON Alarm Limit	Site	SLO	Active TX	TX2
	Date	Thu Jan 15 2026 00:59:50		

ç¹ MONITOR1	LOWER	UPPER
TX1 CARRIER Frequency	116.2900MHz	116.3100MHz
TX2 CARRIER Frequency	116.2900MHz	116.3100MHz
TX1 USB Frequency	116.3000MHz	116.3200MHz
TX2 USB Frequency	116.3000MHz	116.3200MHz
TX1 LSB Frequency	116.2800MHz	116.3000MHz
TX2 LSB Frequency	116.2800MHz	116.3000MHz
TX1 CARRIER Output Power	80.0W	120.0W
TX2 CARRIER Output Power	80.0W	120.0W
TX1 RF Input Level	-20.0dBm	0.0dBm
TX2 RF Input Level	-20.0dBm	0.0dBm
TX1 Azimuth	2.2degs	4.2degs
TX2 Azimuth	2.2degs	4.2degs
TX1 9960Hz FM Index	15.0	17.0
TX2 9960Hz FM Index	15.0	17.0
TX1 30Hz AM Mod. Depth	28.0%	32.0%
TX2 30Hz AM Mod. Depth	28.0%	32.0%
TX1 9960Hz AM Mod. Depth	28.0%	32.0%
TX2 9960Hz AM Mod. Depth	28.0%	32.0%
TX1 1020Hz AM Mod. Depth	9.0%	5.0%
TX2 1020Hz AM Mod. Depth	9.0%	5.0%
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

ç¹ MONITOR2	LOWER	UPPER
TX1 CARRIER Frequency	116.2900MHz	116.3100MHz
TX2 CARRIER Frequency	116.2900MHz	116.3100MHz
TX1 USB Frequency Lower Limit	116.3000MHz	116.3200MHz
TX2 USB Frequency Lower Limit	116.3000MHz	116.3200MHz
TX1 LSB Frequency	116.2800MHz	116.3000MHz
TX2 LSB Frequency	116.2800MHz	116.3000MHz
TX1 CARRIER Output Power	80.0W	120.0W
TX2 CARRIER Output Power	80.0W	120.0W
TX1 RF Input Level Lower Limit	-20.0dBm	0.0dBm
TX2 RF Input Level Lower Limit	-20.0dBm	0.0dBm
TX1 Azimuth	2.2degs	4.2degs
TX2 Azimuth	2.2degs	4.2degs
TX1 9960Hz FM Index	15.0	17.0
TX2 9960Hz FM Index	15.0	17.0
TX1 30Hz AM Mod. Depth	28.0%	32.0%
TX2 30Hz AM Mod. Depth	28.0%	32.0%
TX1 9960Hz AM Mod. Depth	28.0%	32.0%
TX2 9960Hz AM Mod. Depth	28.0%	32.0%
TX1 1020Hz AM Mod. Depth	5.0%	9.0%

TX2 1020Hz AM Mod. Depth	5.0%	9.0%
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	TX2
	Date	Thu Jan 15 2026 00:59:50		

### ç<sup>1</sup> Communication

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

### ç<sup>1</sup> 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

### ç<sup>1</sup> DC/DC Status

#### Voltage

#### Current

- DC +5V	5.3 V	1.4 A
- DC +7V	7.3 V	1.1 A
- DC +15V	14.9 V	0.0 A
- DC +28V	26.7 V	20.5 A
- DC -15V	-14.0 V	0.0 A

### ç<sup>1</sup> AC/DC Status

#### Voltage

#### Current

- AC +28V	27.0 V	12.9 A
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### ç<sup>1</sup> Battery Status

#### Voltage

#### Current

- Battery +24V	26.3 V	0.0 A
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### ç<sup>1</sup> Shelter

- Door	: Closed
- Fire Alarm	: Normal
- Ambient Temperature	: -177.9

### ç<sup>1</sup> 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