

# MARU 220 DVOR

| Main Status | Site | SLO                      | Active TX | TX1 |
|-------------|------|--------------------------|-----------|-----|
|             | Date | Tue Jan 13 2026 10:58:12 |           |     |

| 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          | 116.3010MHz | 116.3006MHz |
| USB Frequency              | 116.3109MHz | 116.3106MHz |
| LSB Frequency              | 116.2909MHz | 116.2908MHz |
| CARRIER Output Power       | 108.3W      | 108.7W      |
| RF Input Level             | -11.3dBm    | -11.1dBm    |
| Azimuth                    | 3.0degs     | 3.2degs     |
| 9960Hz FM Index            | 15.9        | 16.0        |
| 30Hz AM Modulation Depth   | 30.5%       | 30.0%       |
| 9960Hz AM Modulation Depth | 29.7%       | 29.0%       |
| 1020Hz AM Modulation Depth | 7.1%        | 7.1%        |

# MARU 220 DVOR

| Transmitter | Site | SLO                      | Active TX | TX1 |
|-------------|------|--------------------------|-----------|-----|
|             | Date | Tue Jan 13 2026 10:58:12 |           |     |

|                                    |           |           |
|------------------------------------|-----------|-----------|
| 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                                | ON        | OFF       |
| USB SBA                            | ON        | OFF       |
| LSB SBA                            | ON        | OFF       |
| ç <sup>1</sup> Antenna Control     | TX1       | TX2       |
| Control Mode                       | Normal    | Normal    |
| ç <sup>1</sup> Temperature         | TX1       | TX2       |
| CPA Temperature                    | 40.0degs  | 22.0degs  |
| MSG Temperature                    | 38.0degs  | 37.5degs  |

# MARU 220 DVOR

| Monitor | Site | SLO                      | Active TX | TX1 |
|---------|------|--------------------------|-----------|-----|
|         | Date | Tue Jan 13 2026 10:58:12 |           |     |

| ç¹ General Status                   | MON1        | MON2        |
|-------------------------------------|-------------|-------------|
| Status                              | NORMAL      | NORMAL      |
| ç¹ Major Measurement                | MON1        | MON2        |
| IDENT Code                          | SLO         | SLO         |
| CARRIER Frequency                   | 116.3010MHz | 116.3006MHz |
| USB Frequency                       | 116.3109MHz | 116.3106MHz |
| LSB Frequency                       | 116.2909MHz | 116.2908MHz |
| CARRIER Output Power                | 108.3W      | 108.7W      |
| RF Input Level                      | -11.3dBm    | -11.1dBm    |
| Azimuth                             | 3.0degs     | 3.2degs     |
| 9960Hz FM Index                     | 15.9        | 16.0        |
| 30Hz AM Modulation Depth            | 30.5%       | 30.0%       |
| 9960Hz AM Modulation Depth          | 29.7%       | 29.0%       |
| 1020Hz AM Modulation Depth          | 7.1%        | 7.1%        |
| 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                 | 15.8        | 15.9        |
| TSG Azimuth                         | 179.8degs   | 179.9degs   |
| 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                            | 28.0V       | 27.9V       |
| TX1 -15V                            | -15.0V      | -15.1V      |
| TX2 +5V                             | 5.0V        | 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 | Tue Jan 13 2026 10:58:12 |           |     |

| 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 | Tue Jan 13 2026 10:58:12 |           |     |

### ⌘<sup>1</sup> Communication

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

### ⌘<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 |

### ⌘<sup>1</sup> DC/DC Status

#### Voltage

#### Current

|           |         |        |
|-----------|---------|--------|
| - DC +5V  | 5.3 V   | 1.2 A  |
| - DC +7V  | 7.3 V   | 1.2 A  |
| - DC +15V | 14.8 V  | 0.0 A  |
| - DC +28V | 26.5 V  | 16.3 A |
| - DC -15V | -14.0 V | 0.0 A  |

### ⌘<sup>1</sup> AC/DC Status

#### Voltage

#### Current

|           |        |        |
|-----------|--------|--------|
| - AC +28V | 26.8 V | 12.9 A |
|-----------|--------|--------|

### ⌘<sup>1</sup> Battery Status

#### Voltage

#### Current

|                |        |       |
|----------------|--------|-------|
| - Battery +24V | 26.1 V | 0.0 A |
|----------------|--------|-------|

### ⌘<sup>1</sup> Shelter

|                       |          |
|-----------------------|----------|
| - Door                | : Closed |
| - Fire Alarm          | : Normal |
| - Ambient Temperature | : -92.9  |

### ⌘<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 |