

| MARU 220 DVOR | | | | |
|----------------------|-------------|---------------------------------|------------------|------------|
| Main Status | Site | SLO | Active TX | TX1 |
| | Date | Mon Jan 12 2026 22:40:30 | | |

| \$¹ 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 | |

| \$¹ MON Major Measurement | | MON1 | MON2 |
|----------------------------------|-------------|-------------|-------------|
| Status | | NORMAL | NORMAL |
| IDENT Code | SLO | SLO | |
| CARRIER Frequency | 116.3008MHz | 116.3006MHz | |
| USB Frequency | 116.3110MHz | 116.3105MHz | |
| LSB Frequency | 116.2907MHz | 116.2907MHz | |
| CARRIER Output Power | 109.5W | 109.9W | |
| RF Input Level | -11.2dBm | -11.0dBm | |
| Azimuth | 2.7degs | 3.2degs | |
| 9960Hz FM Index | 15.9 | 16.0 | |
| 30Hz AM Modulation Depth | 30.4% | 29.9% | |
| 9960Hz AM Modulation Depth | 29.8% | 29.2% | |
| 1020Hz AM Modulation Depth | 6.8% | 6.7% | |

MARU 220 DVOR

| Transmitter | Site | SLO | Active TX | TX1 |
|--------------------|-------------|---------------------------------|------------------|------------|
| | Date | Mon Jan 12 2026 22:40:30 | | |

| | | |
|------------------------------------------|-----------|-----------|
| <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 | 40.5degs | 22.0degs |
| MSG Temperature | 37.5degs | 37.5degs |

| MARU 220 DVOR | | | | |
|----------------------|-------------|---------------------------------|------------------|------------|
| Monitor | Site | SLO | Active TX | TX1 |
| | Date | Mon Jan 12 2026 22:40:30 | | |

| §¹ General Status | | MON1 | MON2 |
|-------------------------------------------------------|-------------|-------------|-------------|
| Status | | NORMAL | NORMAL |
| §¹ Major Measurement | | MON1 | MON2 |
| IDENT Code | | SLO | SLO |
| CARRIER Frequency | 116.3008MHz | 116.3006MHz | |
| USB Frequency | 116.3110MHz | 116.3105MHz | |
| LSB Frequency | 116.2907MHz | 116.2907MHz | |
| CARRIER Output Power | 109.5W | 109.9W | |
| RF Input Level | -11.2dBm | -11.0dBm | |
| Azimuth | 2.7degs | 3.2degs | |
| 9960Hz FM Index | 15.9 | 16.0 | |
| 30Hz AM Modulation Depth | 30.4% | 29.9% | |
| 9960Hz AM Modulation Depth | 29.8% | 29.2% | |
| 1020Hz AM Modulation Depth | 6.8% | 6.7% | |
| §¹ MON Test Signal Generator | | MON1 | MON2 |
| TSG 30Hz AM Modulation Depth | 30.6% | 30.1% | |
| TSG 9960Hz AM Modulation Depth | 30.3% | 30.0% | |
| TSG 9960Hz FM Index | 15.8 | 15.9 | |
| TSG Azimuth | 180.1degs | 179.8degs | |
| §¹ 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 | 27.9V | |
| TX1 -15V | -15.0V | -15.0V | |
| 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 | |
| §¹ SIDEBAND Output Power (From MSG) | | TX1 | TX2 |
| USB SIN Output Power | 2.11W | - | |
| USB COS Output Power | 2.15W | - | |
| LSB SIN Output Power | 2.23W | - | |
| LSB COS Output Power | 2.26W | - | |

MARU 220 DVOR

| MON Alarm Limit | Site | SLO | Active TX | TX1 |
|------------------------|-------------|---------------------------------|------------------|------------|
| | Date | Mon Jan 12 2026 22:40:30 | | |

| ‡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 | Mon Jan 12 2026 22:40:30 | | |

‡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 | 1.2 A |
| - DC +7V | 7.3 V | 1.2 A |
| - DC +15V | 14.9 V | 0.0 A |
| - DC +28V | 26.6 V | 19.3 A |
| - DC -15V | -14.0 V | 0.0 A |

‡¹ AC/DC Status

| | Voltage | Current |
|-----------|---------|---------|
| - AC +28V | 26.9 V | 9.2 A |

‡¹ Battery Status

| | Voltage | Current |
|----------------|---------|---------|
| - Battery +24V | 26.2 V | 0.0 A |

‡¹ Shelter

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

‡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 | |