

# 100W FM SOLID STATE TRANSMITTER



- ☑ **FM MODULATOR WITH EXCELLENT SPECIFICATIONS**
- ☑ **COMPACT SIZE ON 2HE 19" FRAME**
- ☑ **FULLY COMPLIANT WITH ETSI REQUIREMENTS**
- ☑ **EFFICIENT LOW NOISE FORCED AIR COOLING**
- ☑ **PROTECTIVE CIRCUITS FOR THE RF POWER TRANSISTORS**
- ☑ **STATE OF THE ART LDMOS TECHNOLOGY**
- ☑ **HIGH SUPPRESSION OF THE INTERMODULATION PRODUCTS**
- ☑ **REMOTE CONTROL/MONITORING VIA SNMP/WEBSERVER**
- ☑ **USER-FRIENDLY 3.5" TOUCH SCREEN DISPLAY**
- ☑ **EASY INSTALLATION, START-UP AND MAINTENANCE**

**GENERAL SPECIFICATIONS**

|                             |                                  |
|-----------------------------|----------------------------------|
| FREQUENCY RANGE             | 87.5 – 108 MHZ                   |
| OPERATING VOLTAGE           | SINGLE PHASE 90+264 VAC, 50/60HZ |
| POWER FACTOR                | > 0.95                           |
| OPERATING TEMPERATURE       | -5°C to 45°C                     |
| HUMIDITY                    | 95% NON CONDENSING               |
| INSTALLATION HEIGHT         | UP TO 3000mt ASML                |
| POWER CONSUMPTION (TYPICAL) | 175W                             |
| OUTPUT RF CONNECTOR         | N TYPE                           |
| AVAILABLE INPUTS            | L+R, MPX, SCA                    |

**RF SPECIFICATIONS**

|                             |                                     |
|-----------------------------|-------------------------------------|
| RF OUTPUT POWER             | 100W                                |
| FREQUENCY SETTING           | 100kHz STEPS                        |
| FREQUENCY STABILITY         | ± 500HZ /YEAR                       |
| NOMINAL FREQUENCY DEVIATION | ± 75KHZ                             |
| SPURIOUS EMISSION           | in accordance with ETSI EN 302018-2 |
| VSWR                        | 1.4                                 |

**MPX CHARACTERISTICS**

|                                         |                   |
|-----------------------------------------|-------------------|
| SIGNAL INPUT                            | MPX COMPOSITE     |
| INPUT IMPEDANCE                         | UNBALANCED 10KOhm |
| INPUT CONNECTOR                         | BNC               |
| INPUT LEVEL                             | ADJUSTABLE        |
| AUDIO FREQUENCY RESPONSE (40HZ - 65KHZ) | < 0.5dB           |
| THD + N                                 | < 0.3%            |

**STEREO CHARACTERISTICS**

|                                           |                  |
|-------------------------------------------|------------------|
| INPUT IMPEDANCE                           | BALANCED 600 Ohm |
| INPUT CONNECTORS                          | Canon XLR        |
| INPUT LEVEL                               | -6 to +12 dBm    |
| PRE-EMPHASIS                              | 75us, 50us, 0    |
| AUDIO FREQUENCY RESPONSE (40HZ - 15KHZ)   | < 0.5dB          |
| THD + N                                   | < 0.3%           |
| CROSSTALK (40HZ – 15KHZ)                  | > 47dB           |
| SIGNAL TO NOISE RATIO (@ 75KHZ DEVIATION) | > 75dB           |

**REMOTE CONTROL AND MONITORING SYSTEM**

|                               |                     |
|-------------------------------|---------------------|
| ETHERNET, WEB SERVER AND SNMP | AVAILABLE AS OPTION |
|-------------------------------|---------------------|

**AVAILABLE OPTIONS**

|              |
|--------------|
| STEREO CODER |
| RDS CODER    |