

# M8900

**Frequency range:** 24.5 to 30.105MHz

**Mode:** AM/FM/USB/LSB/PA

**Output Power:** LOW 1W, Middle 7W, High 40W

**Main Functions:**

AI VOX

AI noise cancelling (6 levels)

DSP type noise cancelling (6 levels)

CW filter bandwidth adjustable (600Hz/800Hz/2.8KHz)

SWR meter ( fixed the bug )

Digital filter type Hi-cut 6 levels

CTCSS/DCS

NOAA (optional)

Step: 10Hz, 100Hz, 1KHz, 10KHz, 100KHz

ASQ function (9 levels)

ECHO function

Output power adjustable

Beep volume adjustable

Dual Watch

ANL build-in

Scan

Roger Beep

Lock on/off

EMG Channel

Mic gain adjustable

+10KHz

TalkBack (volume adjustable, 9 levels)

Scan list

TOT

Digital RFG adjustable

LCD DIM level adjustable

+10KHz function

Mute function

## GENERAL

|                   |                                             |
|-------------------|---------------------------------------------|
| Frequency         | 28.000 -29.700 MHz (24.500 - 30.105 MHz)(*) |
| Frequency Bands   | A/B/C/D/E/F/G/H/J                           |
| Channels          | 40 Channels in each band                    |
| Frequency Control | Phase-Locked-Loop Synthesizer               |
| Frequency Step    | 10 Hz -100 Hz -1 KHZ -10 KHz                |

|                     |                                                                              |
|---------------------|------------------------------------------------------------------------------|
| Frequency Tolerance | 0.005%                                                                       |
| Frequency Stability | 0.001%                                                                       |
| Temperature Range   | -30°C to +50°C                                                               |
| Microphone          | Plug-in Electret condenser microphone with PTT /UP/DN switch and coiled cord |
| Input Voltage       | 13.8V normal / 15.9V max./11.7V min.                                         |
| Current             | Drain 5A(TX AM Full Mod.)/8A(SSB 40W PEP) 0.6A(RX Squelched)                 |
| Size / Weight       | 17.5 x 18.2 x 5.3 cm / 1.5 Kg                                                |
| Antenna Connector   | UHF.S0239                                                                    |

## TRANSMITTER

|                     |                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------|
| RF output power     | AM/FM/CW/SSB 40W                                                                        |
| Modulation          | High and Low level Class B<br>Amplitude Modulation :AM<br>Varied Capacitance Frequency  |
| Modulation :        | FMInter-modul. DistorsionSSB : 3rd order, more than -25dB<br>5th order, more than -35dB |
| SSB Carrier Suppr.  | 55dB                                                                                    |
| Unwanted Sideband   | 50dB                                                                                    |
| Frequency Response: | 300 to 2800Hz                                                                           |

## RECEIVER

|                           |                                                                                                                                                                                                               |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensitivity (12dB Sinad)  | SSB : 0.25uV for 10dB (S+N)/N at greater than 1/2W of audio output<br>AM : 1.0uV for 10 dB (S+N)/N at greater than 1/2W of audio output<br>FM : 1.0+pV for 20 dB (S+N)/N at greater than 1/2W of audio output |
| Selectivity               | AM/FM :6dB at 3 KHz/ 50dB at 9KHz<br>SSB : 6dB at 2.1 KHz / 60dB at 3.3KHz                                                                                                                                    |
| IF Frequency              | AM/FM/SSB:10.695 MHz 1st IF,455 KHz 2nd IF                                                                                                                                                                    |
| Adjacent Channel          | 60dB AM/FM/70dB SSB                                                                                                                                                                                           |
| RF Gain Control           | 45dB adjustable for optimum signal reception                                                                                                                                                                  |
| Autom. Gain Control (AGC) | Less than 10dB change in audio output for inputs from 10 to 100.00 uV                                                                                                                                         |
| Squelch Adjustable.       | threshold less than 0.5uV.                                                                                                                                                                                    |
| Automatic Squelch Control | (AM/FM only) 0.5uV                                                                                                                                                                                            |
| Audio Output Power        | 3W into16 Ohm                                                                                                                                                                                                 |

|                    |                                                                 |
|--------------------|-----------------------------------------------------------------|
| Frequency Response | 300 to 2800Hz                                                   |
| Built-in Speaker   | 16ohm                                                           |
| External Speaker   | 16 Ohm: disables internal speaker when connected (not supplied) |

(\*)S-890(INTERNATIONAL VERSION)24.500 - 30.105 MHz (not available for Europe)