

THE MICRO PHASE COMMUNICATION
MP-4020 FM AUDIO
SUB-CARRIER MODULATOR
SPECIFICATIONS

OUTPUT CHARACTERISTICS

OUTPUT FREQUENCY	100kHz to 8.5MHz
AGILITY	1kHz step size
SPECTRAL PURITY	1) non-harmonic - better than -55dBc 2) harmonic - better than -40dBc
MAXIMUM OUTPUT CARRIER LEVEL	100mV bridged across 75 ohm system
OUTPUT IMPEDANCE	2K ohm
OUTPUT LEVEL ADJUST RANGE	10dB (front-panel adjust)
CARRIER ON/OFF RATIO	50dBc
FREQUENCY STABILITY	10ppm per year 5ppm during first month 7ppm from 5°C to 55°C
FREQUENCY ADJUST	Internal trimmer capacitor
LEVEL STABILITY	±.25dB (10°C to 40°C)
OUTPUT CONNECTOR	Rear-panel BNC (female) connector
OUTPUT CARRIER MONITOR	Front-panel BNC (female) connector

MODULATION CHARACTERISTICS

COMPANDERED	DBX 3:1, standard 2:1 or other
MODULATION FREQUENCY	50Hz to 3.4kHz (optional) 50Hz to 7.5kHz (standard) 50Hz to 15kHz (standard) 50Hz to 20kHz (optional)
FREQUENCY RESPONSE	±0.1dB, 50Hz to 20kHz [see note (1)]
DEVIATION	±75kHz (peak) nominal ±100kHz (peak) maximum
THD	0.2%, 50Hz to 20kHz [see note (1)]
SIGNAL TO NOISE	>70dB (ref to 75kHz pk 50Hz to 15kHz)
DEVIATION ADJUST	±5dB range (front-panel adjust)
AUDIO INPUT LEVEL	+18dBm, max
AUDIO INPUT IMPEDENCE	600 ohm, balanced
INPUT CONNECTOR	Removable terminal block

Note (1) Excludes compander distortion

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FRONT-PANEL CONTROLS

KEY PAD

- * NUMERIC KEY
- * FUNCTION KEYS FOR:
 - FREQUENCY SELECT
 - CHANNEL SELECT
 - CARRIER ON/OFF
 - LOCAL SELECT
 - ENTER
 - LOAD (frequency)

INDICATORS

- * FOUR-DIGIT LED DISPLAY
- * LIGHTED FUNCTION KEYS for
 - CXR ON/OFF
 - LOCAL/REMOTE
- * POWER-ON LIGHT

INTERFACES

REMOTE CAPABILITY

- * All front-panel functions

CONTROL BUS

- * RS232 port for external control

LOCAL BUS

- * RS422 port for linking units together

GENERAL SPECIFICATIONS

POWER

100V, 120V, 220V, 240V $\pm 10\%$
AC 50/60Hz 50 Watts

SIZE 1.75"H x 17"W

MOUNTING 19"

RACK-MOUNT



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