

## STENTOFON 96010/96020 - Rack Master Control Station

### Features

- Provides crisp, clear audio communications
- Rugged, durable components constructed for heavy use
- Compact, design for 19" x 5 1/4" console rack mounting
- Engineered for prison, jail and security applications
- Direct-select push button access to (24) or (48) substations
- Modular construction allows expansion to (1152) substations
- Call annunciation with flashing green LED and intermittent tone
- Easily programmed all-call and group-call buttons
- Audio monitoring of preselected areas and substations
- Priority group call with tone and answer back
- Line supervision with manual fault indication
- Multiple (24) watt audio output amplifiers as required
- Data output port for interface to other equipment



### Functional Description

The 96010/96020 is a rack mounted master control station designed to annunciate calls from and direct-access calls to, up to (48) substations and/or paging zones. The 9600 series of masters are designed for prison and security use and can be expanded in groups of (24) buttons up to 1152 buttons. Example: One 9604 (48) button expansion unit provides the master with a capacity of (96) direct-select buttons. The button modules have a green LED for standard call-in and red for alarms. Masters can operate singly, in parallel or a combination for flexible sub-master/control-master applications. The station allows direct-access calling, press-to-talk release to listen, two-way intercom, individual and group monitoring, flexible group paging, and programmable group call with answer-back. Separate amplifiers provide clear voice reproduction with provisions for adding audio power when necessary. A data I/O port can provide an interface to or from other security equipment, such as CCTV and access control systems or output to a P.C. or printer. Each master has provisions to call other masters as well as access overhead paging. External wires to substations are electronically supervised and fault conditions can be displayed on command. Master has provision for options such as: a handset, remote control boards, sound detection alarm modules, multiple master operation, and data interfaces.

### Technical Specifications

FacePlate:	1/8" aluminum, faceplate finished in textured black epoxy.
Dimensions:	Rack mount: 5 1/4" H x 19" W x 13" D
Button Module:	(24) 1/2", push-on/push-off electronic buttons each with (1) red and (1) green LED indicators.
Feature Buttons:	(7) 1/2" programmable buttons
Master Buttons:	(7) 1/2" master-to-master buttons
Volume Control:	(2) 1/2" Up/Down digital control buttons
Voice Control:	(1) 1/2" PTT (push-to-talk) bar
Speaker:	2" x 3", 45 ohm, 1 watt. 200 - 5000 Hz, 86 dB spl, $\pm$ 3 dB
Microphone:	Electret condenser, -65 dB at 1 KHz sensitivity
Handset Jack:	RJ11 modular plug-in receptacle with on/off switch
Amplifier:	(5) watt master amplifier. (24) watt substation amplifier.
Frequency Response:	200 - 5 KHz peaked for maximum voice articulation
Microprocessor:	68HCII CPU, 32K ROM, 8K RAM and 512 bytes for user programmable EEPROM
Data Ports:	(1) RS422 I/O serial port at 9600 baud (1) SPI high speed, 2 MEG parallel port, buffered to RS422
Power:	Requires 24V 60 hz, 2.5 amp max. per (48) button master
Connectors:	(3) 50-pin F amp connectors. One for each (24) button module, for each (24) button module and one for master interface module. Screw terminals for power, external master speaker and external call-in tone.
Weight:	(9) lbs. per (48) button master
Call-in Signal:	Piezo electric high frequency buzzer