DESK/SURFACE-MOUNTED MASTER STATION
HF-250M

DESCRIPTION

The HF-250M desk/surface-mounted type master intercom station is designed to operate together with a TOA fully electronic microcomputer-controlled exchange equipped with a memory for stored program control. The HF-250M can communicate in full-duplex with all other master stations in the system. It has a handset and an on-board electret condenser mic. It is equipped with an auto-dialer function that can connect a maximum of sixteen (16) stations by one-touch dialing of a registered station number. The HF-250M also has an LCD display to show dialing data and current time. The DT-E70 data transmitting unit is required for this display.

FEATURES

1. Desk-top or wall mounting.
2. Sixteen auto-dial keys.
3. 12-segment LCD shows calling station number, waiting station number, and number of waiting stations, plus current time. DT-E70 data transmitting unit is required for all except calling station number display.
4. High/Low selectable speaker volume control.
5. External microphone or headset connection.
6. "Spill-proof" keypad.
7. Jack to connect 4-pin modular telephone plug.
8. Programming from keypad.
9. Two-pair twisted wire (22—24AWG).

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SPECIFICATIONS

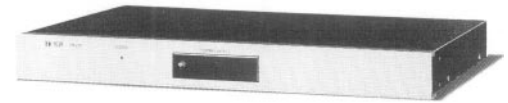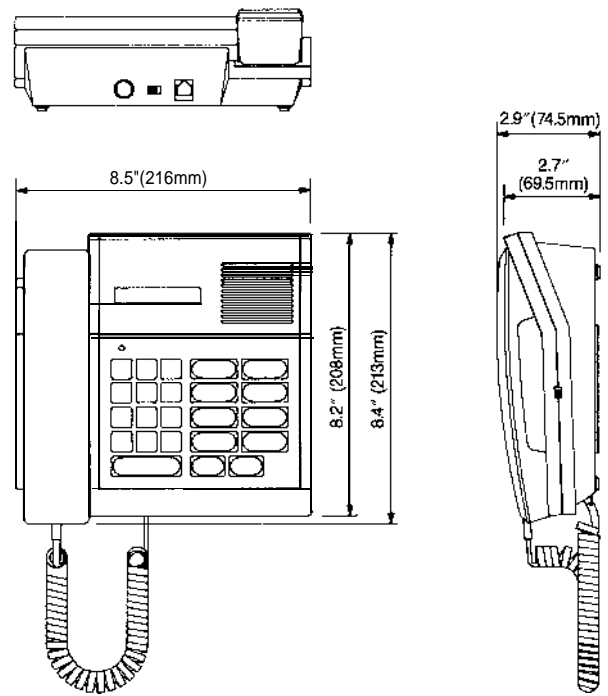|	
Handset Microphone & Speaker	Dynamic type, 130-ohm each
Internal Speaker	Dynamic type, 8-ohm, 2.25" (57mm) dia., 0.6 watts
Internal Microphone	Electret condenser type
Keypad	"Spill-proof" key switch
Speaker Volume Control	High/Low selectable
External Input	External microphone or headset connectable
Display	12-segment LCD
Auto-Dialer	8 keys
Station No. Registration Capacity	Max. 16
Registration Code No.	Max. 50 digits
Wiring	Twist 2 pairs, nonpolar (Desk mountable via 4-pin modular telephone connector)
Power Requirements	24V DC, 30mA
Operating Temperature	32°F to 104°F (0°C to 40°C)
Case Material & Color	ABS resins, pale white
Dimensions (W x H x D)	8.5 x 2.5 x 8.2 inches 216 x 69.5 x 208mm
Weight	2.2 lbs. (960g)

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The master station shall be a TOA HF-250M and shall be capable of full-duplex communication with other master stations via its dynamic handset. The HF-250M shall be capable of hands-free communication with other master stations via its on-board dynamic electret condenser mic. An external mic or headset may be attached with the unit's 1/4" jack. The HF-250M shall be equipped with a 12-segment LCD display, a modular (TELCO type) jack for standard four-pin connectors, 22-24 AWG wire and an 8-ohm dynamic speaker with volume switch. The HF-250M shall include an auto-dialer which can connect a maximum of sixteen (16) stations by one-touch dialing.
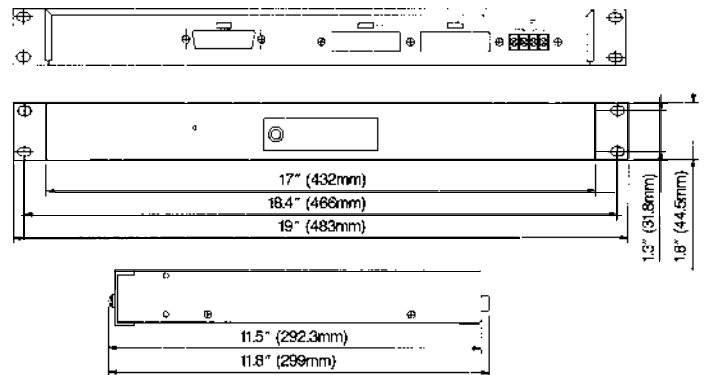
DT-E70 SPECIFICATIONS

Power Supply	+24V DC (20 to 28V)
Current Consumption	200mA max.
Transmitting Channel Numbers	16 channels (Selection with DIP switch on PC board)
Transmitting Unit	Max. 16 units per system
Transmitting Data per Channel	512 bits (32 words)
Transmitting Cycle Time	0.32 second/cycle
Transmitting System	2-frequency FSK (frequency shift keying)
Transmitting Line	Nonpolar 2-conductor cable (parallel, stranded, shielded)
Output Impedance	16-ohm/600-ohm balanced
Transmitting Distance	Max. 1.24 miles (2km) [1/40" (0.65mm) dia.]
Parallel Connection Numbers	DR-B61: Max. 50 units/DT-E70 HF-250M: Max. 16 units/DT-E70
Time Entering Device	HF-250M
Operating Temperature	32°F to 104°F (0°C to 40°C)
Installation Method	Desk top or rack mounting
Color	Panel: Metallic gold Case: Colored steel plate—dark grey (Munsell N3.0) Rack mounting bracket: Metallic gold
Dimensions (W x H x D)	17.0 (19.0) x 1.8 x 11.3 inches 432 (483) x 44.5 x 288mm
Weight	6.8 lbs. (3.1 kg)

APPEARANCE AND DIMENSIONAL DIAGRAM

DT-E70
Data Transmitting Unit

The DT-E70 data transmitting unit is designed for use with the EXES-6000 series exchange EX-600/610/620/630. This unit enables various indication or control functions such as In/Out announciations, calling party indication and general purpose control in conjunction with the DR-B61 data receiving unit and HF-250M intercom station with LCD display.

* Specifications are subject to change without notice.

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TOA Corporation