TOA

SYSTEM MANAGER

SX-2000SM

■DESCRIPTION

The SX-2000SM System Manager is designed for use in TOA's Matrix System and can be mounted in an EIA Standard component rack (1-unit size). It can be used in combination with an optional audio input unit audio output unit and remote microphone of the SX-2000 Series to make up a complete matrix system and can perform audio signal routing and priority control for the entire system.
The SX-2000SM itself is equipped with 8 control inputs, 8 control outputs, failure status outputs, failure data inputs/switches, access indicators, mode indicators and failure indicators enabling a wide range of controls and status monitoring. Control input line failure can be detected by connecting resistors to its line. The SX-2000SM has a function to supply a stabilized 24 V DC. Each control can be performed by way of a CF card inserted into the SX-2000SM unit. Operations of the entire system can be recorded and their contents stored on a CF card as an operation log. The SX-2000SM also features two power inputs making possible the creation of a dual-redundant power system. Equipped with two channels of interfaces for connecting to the Emergency Power Supply units, making it possible to configure the system to operate during a power failure.

■SPECIFICATIONS

Power Source	Usable power supply unit: VX-200PS 24 V DC (operational range: 20 V – 40 V DC) Two power inputs construction enables dual- redundant power supply.
Current Consumption	1.1 A or less (maximum value in the power operating range) 0.8 A or less (when operated on 24 V DC)
Indication/Operation	SX link access indicator: 2 LAN access indicator: 1 Mode indicator: 3 (EMERGENCY/STANDBY/ CPU OFF) Failure indicator: 3 (GENERAL/CPU/SX LINK) Power indicator: 1 (POWER) Run indicator: 1 (RUN) Failure control switch: 3 (ACK/RESET/LAMP TEST)
SX Link	
Network I/F	2 100BASE-TX circuits, RJ45 connector
Matrix System Specification	Bus: 16 Audio input: Max. 64 ch Audio output: Max. 256 zones Contact input: Max. 1416 Contact output: Max. 1416 Priority control: 512 steps Event log: Up to 1,000 logs per file (up to 100 files available) Failure log: Up to 100 logs per file (up to 100 files available)
Matrix System Configuration	Connectable SX-2100AI No.: Max. 8 units Connectable SX-2000AO/2100AO No.: Max. 32 units Connectable SX-2000CI No.: Max. 32 units Connectable SX-2000CO No.: Max. 32 units Connectable RM-200SA/SF No.: Max. 64 units (up to 8 RM-200SA per SX-2100AI)
Connection Cable/Device	Shielded Category 5 twisted pair cable (CAT5-STP) (Connect SX-2100AI and SX-2000AO/2100AO via the switching hub specified by TOA.) Note: This network must be made completely independent from other LAN.
Number of Cascaded Switching Hub	Up to 7
Maximum Cable Distance	100 m (between this unit and a Number of Cascaded Switching Hubs, or between Number of Cascaded Switching Hubs)
LAN	
Network I/F	1 10BASE-T/100BASE-TX circuit (selectable by automatic recognition), RJ45 connector for maintenance use
Network Protocol	TCP/IP
Connection Cable	Shielded Category 5 twisted pair cable for LAN (CAT5-STP)
Maximum Cable Distance	100 m (between this unit and a Switching Hub, or between a Switching Hub and a PC)
Analog Link	
Input/Output Connector	Output: 2, RJ45 connector
Connection Cable	Shielded Category 5 twisted pair cable (CAT5-STP) (1 pair of audio wire + 1 pair of control wire (CPU OFF) + 1 pair of control wire (system reset/standby) + 1 pair of connection check wire)
Maximum Cable Distance	Total length of analog audio link: 800 m
DS Link	
Usable Unit	VX-2000DS
Connector/Cable	2 interface, RJ45 Connector, Shielded Category 5 twisted pair cable (CAT5-STP)
Maximum Cable Distance	5 m

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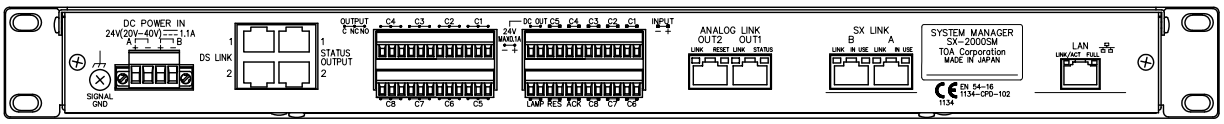
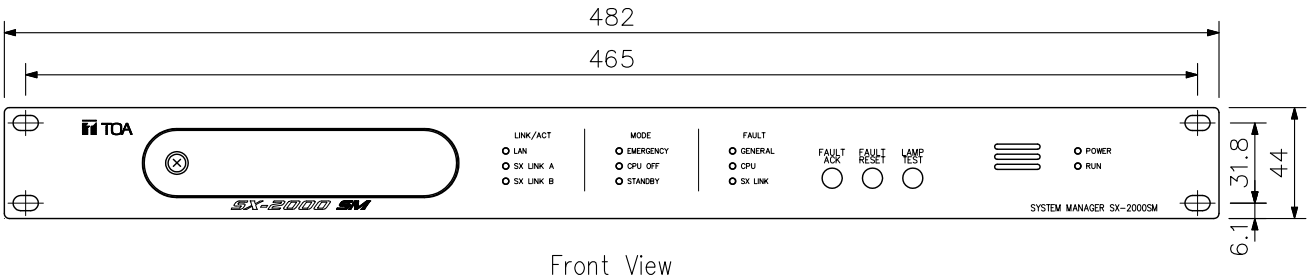
Failure Data Input	3 inputs (ACK/RESET/LAMP TEST), no-voltage make contact input, open voltage: 24 V DC, short-circuit current: 2 mA, photo coupler input, removable terminal block (12 pins)
Failure Data Output	4 outputs (CPU FAULT/GENERAL FAULT/CPU OFF/BUZZER), Form C contact, no-voltage make contact output, relay contact output (withstand voltage: 40 V DC, control current: 2 – 300 mA), RJ45 connector
Control Input	8 inputs, no-voltage make contact input, open voltage: 24 V DC, short-circuit current: 2 mA, photo coupler input, removable terminal block (12 pins)
Surveillance Section for The Control Input Lines	Connection resistance to make the function inactive: 20 kΩ ±5 % Connection resistance to make the function active: 10 kΩ ±5 % Connector cable: Twisted pair cable (shielded type is recommended) Maximum cable distance: 10 m
Control Output	8 outputs, Form C contact, no-voltage make contact output, relay contact output (withstand voltage: 40 V DC, control current: 2 – 300 mA), removable terminal block (12 pins)
24 V DC Output	
Output Voltage	24 V DC ±10 % or less
Maximum Feeding Current	100 mA
Memory Card	Insertion slot: 1 (use of supplied CF card (128 MB)), set data and log data stored
Operating Temperature	0 °C to +40 °C
Operating Humidity	35 % to 80 % RH (no condensation)
Finish	Panel: Aluminum, black, alumite Case: Surface-treated steel plate
Dimensions	482 (W) × 44 (H) × 333 (D) mm
Weight	3.8 kg
Accessory	CD (PC setting software)…1, EV-CF128M (CF card)…1, Rack mounting screw…4, Removable terminal plug (4 pins)…1, Removable terminal plug (12 pins)…4, Driver…1

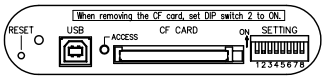
■APPEARANCE



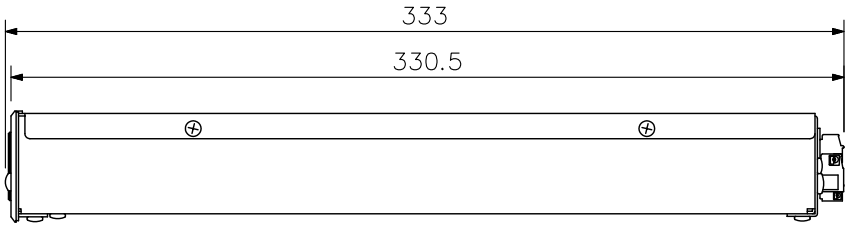
Rear View



Front View



Inside of the protective cover



Side View

UNIT: mm SCALE: 1/3