9.Simplex

4IOO Fire Control Panels

UL, ULC, CSFM Listed; FM Approved; MEA (NYC) Acceptance*

Features

Connect additional remote microphones to a Simplex[®] 4100ES or 4100U fire alarm audio control panel:

- Each 4100-1274 Microphone Multiplex Module converts a single microphone input to support up to eight (8) remote microphones
- Up to 40 remote microphones can be connected per audio controller (see compatibility below)
- Allows additional remote microphones for applications such as UFC (Unified Facilities Criteria) requirements for Mass Notification systems for Navy and Air Force requiring a microphone interface within 200 ft (61 m) of travel within a building
- Refer to UFC-4-021-01, 9 April, 2008 for details (Note: Remote microphones and associated controls have specific operation and enclosure requirements per this document)

Compatibility:

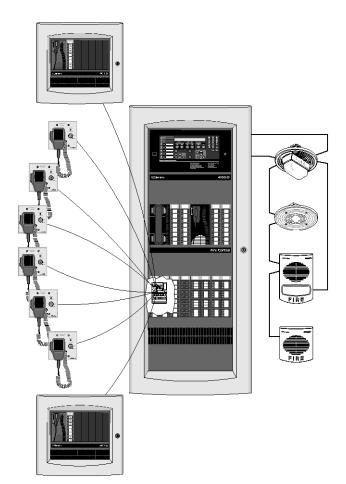
- Connect one (1) 4100-1274 to the remote microphone input of either a Digital Audio Controller (Model 4100-1311 or 4100-1211) or an Analog Audio Controller (Model 4100-1210)
- Connect up to two (2) 4100-1274 Microphone Multiplex Modules to a 4100-1240 Auxiliary Audio Input Module (inputs 3 and 4)
- Up to two (2) 4100-1240 modules are supported per audio controller

Compatible microphones:

- Model 4100-1244, panel mounted microphone (located in Remote Annunciator)
- Model 4003-9803, remote microphone with control; requires wiring connections to a 24-Point I/O Module (Model 4100-1290) in the audio control panel
- Other compatible standard or noise cancelling microphones (each microphone on a 4100-1274 Module needs to be the same type)

Module details:

- Individual remote microphone wiring and PTT (push-to-talk) switch wiring is monitored by the 4100-1274 module
- An on-board IDNet[™] Supervised IAM monitors module status (requires one IDNet address and one unit load)
- On-board module diagnostic LEDs indicate Open, Short, + Earth, - Earth per microphone; IAM LED indicates communication status with fire alarm control panel
- On-board earth detection circuit
- UL Listed to Standard 864



4100ES Audio System with 4100-1274 Microphone Multiplex Module and 8 Remote Microphones; 6, Model 4003-9803 Remote Microphones and 2 (single bay) Remote Annunciators with Remote Microphone

Description

Additional Remote Microphones. Standard 4100ES and 4100U Audio systems support up to five (5) remote microphones. For applications requiring more convenient access to remote microphone control, the 4100-1274 Microphone Multiplex Module allows up to eight (8) remote microphones to connect to each standard remote microphone input.

Up to 40 Remote Microphones. With two,

4100-1240 Auxiliary Audio Input Modules connected, and five total 4100-1274 Microphone Multiplex Modules, a total of 40 Remote Microphones are supported.

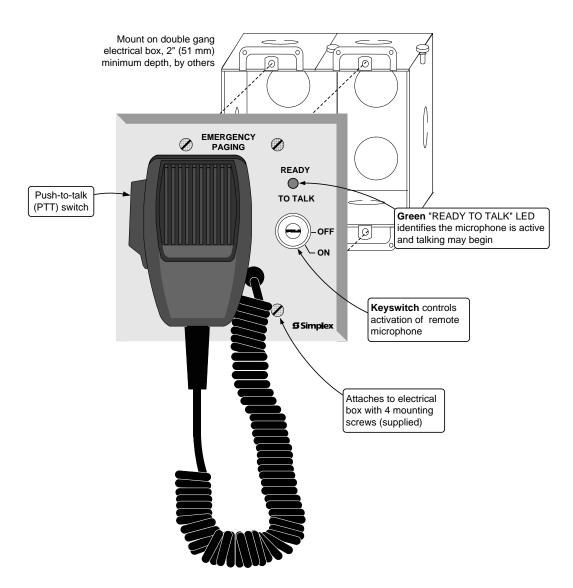
Microphone Multiplex Module Model 4100-1274

^{*} This product has been approved by the California State Fire Marshal (CSFM) pursuant to Section 13144.1 of the California Health and Safety Code. See CSFM Listing 7165-0026:251 for allowable values and/or conditions concerning material presented in this document. It is subject to re-examination, revision, and possible cancellation. Accepted for use – City of New York Department of Buildings – MEA35-93E. Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co. are the property of Tyco Safety Products Westminster.

Product Selection

Model	Description	
4100-1274	Microphone Multiplex Module	
4003-9803	Remote Microphone with on/off switch and ready-to-talk LED; control wiring connects to a 4100-1290, 24 Point I/O module in the audio control panel	
Installation Ins	struction Reference	
Document	Description	
579-879	4100-1274 Microphone Mux Module Installation Instructions	
579-881	4003-9803 Remote Microphone Assembly Installation Instructions	
Additional Pro	duct Reference	
Product		Data Sheet
4100ES Basic Panel Modules and Accessories		S4100-0031
4100ES Emergency Voice/Alarm Communications Equipment		S4100-0034
4100ES Remote Annunciator Panels		S4100-0038

4003-9803 Remote Microphone Reference



4100-1274, Microphon	•	
4100-1274 Module size		One 4 x 5 block module
4100-1274 Mounting Location		Mount either in same cabinet or close-nippled to the cabinet housing the Audio Controller or Auxiliary Audio Input Module
		Digital Audio Controller Models, 4100-1311 or 4100-1211
Compatible Remote Micro	phone Input Sources	Analog Audio Controller Model, 4100-1210
		Auxiliary Audio Input Module, Model 4100-1240
		Connect to remote microphone outputs 3 and 4
Auxiliary Audio Input Mod	ule Details	Up to two 4100-1240 Auxiliary Audio Input Modules can be connected to a compatible Audio Controller Module
Input Voltage		24 VDC system power
	No microphones active	171 mA
-	1 microphone active	219 mA
Supervisory Current	1 microphone active and keyed	258 mA
	Additional keyed microphones	Add 39 mA for each keyed microphone
_	On-Board Supervised IAM	570 μA, supplied by IDNet Signaling Line Circuit (SLC)
Audio Wiring Information	Connection between Microphone Multiplex Module and Remote Microphone Input	Use twisted, shielded pair (TSP) wiring to Audio Controller or Auxiliary Audio Input Module
(requires field wiring)	Remote Microphone Wiring	18 AWG (0.82 mm ²), TSP
	Remote Microphone Distance	4000 ft maximum (1220 m)
On-Board Supervised IAN	Details and Wiring Information	Requires one IDNet address and one IDNet unit load; address is switch selected on-board
(requires field wiring)	U U	Connect to the control panel IDNet communications source desired; wire using 18 AWG twisted pair
4003-9803 Remote Mi	crophone	
Power		24 VDC, system power from 4100-1290, 24 Point I/O Module
Current		25 mA maximum in use
Wiring		18 AWG (0.82 mm ²), twisted, shielded pair (TSP) for microphone; 5 control wires for keyswitch, PTT switch, and LED control
General Environmenta	al Specifications	
Operating Temperature		32° to 120° F (0° to 49° C)
Operating Humidity Range		Up to 93% RH, non-condensing @ 90° F (32° C)

4100-1274, Microphone Multiplex Module

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