FBs-VOM

Voice Output Module

Introduction

FBs-VOM is a voice output module for the Fatek-PLC control system. With this module, the user can control the play back of the sound track pre-loaded in the module or in the SD card. It can be used in the applications that utilize the voice navigation system. Such as the mechanical parking system or elevator system. Because this module utilize the standard Microsoft wave format(.wav) for the sound track recording, the play back sound can be easily created or edited by the PC system.

Specifications

Playback Sound Tracks- 245 Titles

Sound Storage Media- Built in flash memory or external SD memory card

Sound Capacity-

Built-in: 1M Byte. Up to 2 minutes playback
SD card(FAT16/FAT32), while 2G Byte. up to 4000 minutes play back

I/O Occupy- 8 points D/I and 8 Points D/O

Sound Format- Mono, 8 bit, 8KHz sampling rate

Output Signal- 8V p-p., 4Ω 2W

Playback Control- PLC or by manual(test play)

Sound Level Control- PLC control, up to 10 levels

Playback Sound Install- Edit in PC, download by SD card

Connector- Euro Connector

Isolation- None

Indicators-

5V PWR LED indication
Three LED – Module operation indication

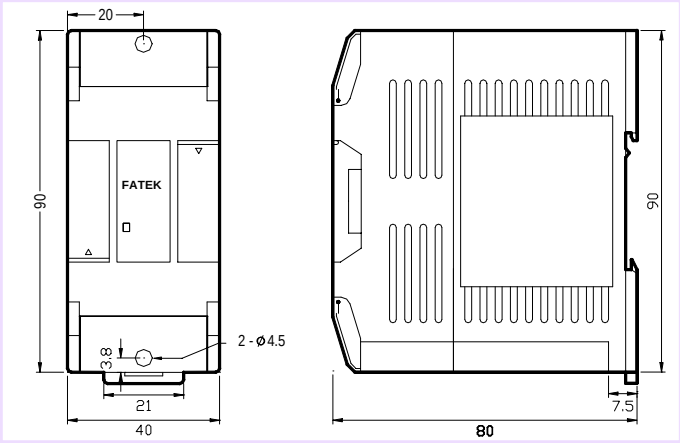
Power Consumption- 5V, 500 mA @2W output

Operating Temperature - 0 ~ 60 ℃

Storage Temperature - -20 ~ 80 ℃

Dimensions - 40(W)x90(H)x80(D) mm

Dimensions



PLC Control

The interface of PLC and VOM module is thru 8 Pts. Of DI and 8 Pts. Of DO. Each sound track in the VOM module is organized and recalled by a number.

Thru the control of DO signal, the user can play the specific sound track or stop the sound play or change the volume of output. When DO is all zero there will be no sound output. When DO is not zero and its value is small than 246 then it will play the sound numbering by DO value. When the DO value is big than 245 then is used for volume control. 246 represent level #0(most weak), while 255 represent level #9(most strong).Besides DO, we also can get the working status of VOM module from the DI signals.

Signal	Name	Function Description
X+0	TOGGLE	Toggle the state upon accept a new command
X+1	BUSY	Set to 1 when playing. Clear to zero when stop
X+2	VOL_CMD	Set to 1 when current command is a volume command
X+3	ERROR	Set to 1 when the play number is big then actual stored.
X+7~X+4	VERSION	VOM firmware version(1~15)

Wiring Diagram