

## SECTION 16930 - TELEPHONE DIALING ALARM EQUIPMENT

### PART 1 - GENERAL

#### SUMMARY

This section includes the following:

Telephone dialing alarm equipment.

#### SUBMITTALS

Submittals: In accordance with Basic Instrumentation Requirements.

### PART 2 - PRODUCTS

#### MANUFACTURERS

Available Manufacturers: Subject to compliance with requirements, manufacturers offering products include:

##### Telephone Dialing Alarm Equipment

Kaye Instruments, Inc.

Phonetics, Inc.

Raco Manufacturing and Engineering Co.

Royce Instrument Corporation

#### TELEPHONE DIALING ALARM EQUIPMENT

System shall be a self-contained completely automatic monitoring system.

System shall be capable of monitoring up to four independent alarm conditions. Existence of an alarm condition shall be indicated by a set of normally closed or normally open dry contacts. Each alarm input channel shall be capable of being programmed to accept either type of alarm input. System shall be capable of multiple fault reporting in one call. Connection to telephone line shall be through a self-contained, FCC-approved coupler and shall plug into a standard modular jack supplied with regular private party telephone line.

Monitoring system shall, upon opening of any one of alarm points, or after a power failure, activate an adjustable time delay. After expiration of this time delay system shall access telephone line, wait for dial tone, and begin to dial first of four field programmed telephone numbers, each 2 to 16 digits in length.

Telephone numbers shall be programmed into monitoring system by means of a keyboard.

Voice message shall be electronically synthesized with no mechanical reproduction elements. Messages shall be programmed by speaking into system which shall digitally record user's voice into speech memory.

After dialing one of four telephone numbers, system shall deliver programmed voice message indicating station fault status. Message shall be repeated 1 to 10 times, as selected by user, with a sufficient space between

messages to allow called individual to acknowledge receipt of call. Acknowledgement of message shall be accomplished by pressing a Touch Tone key on telephone between message transmissions or by calling system back after it has delivered its message.

Following an acknowledgment, system shall vocalize a sign off and hang up. System shall then enter an adjustable 1 to 10 hour delay to allow adequate time for follow-up measures to be taken. If, during delay, another fault occurs, system shall begin re-calling.

If delay elapses and faults still exist, system shall begin dialing again and shall deliver fault message.

If no acknowledgment is received, system shall hang up, wait 60 seconds for network clear down, and call next priority telephone number. After dialing last priority number, system shall, if necessary, return to first priority telephone number and repeat sequence indefinitely.

System shall accept time and date input programming which will ENABLE/DISABLE dial-out. When dial-out is DISABLED, alarms shall be automatically acknowledged. When dial-out becomes ENABLED, any acknowledged alarms which remain present shall initiate dial-out procedure in addition to new alarms. Time and date input shall include separate weekday, weekend, and holiday schedules.

Additionally, system can be called at any time, from any standard telephone, whereupon after an adjustable number of rings it will answer call and deliver a vocalized message indicating station identification and fault status of location.

Provide continuously float-charged batteries within unit for 4 hours standby operation in event of power outage. Provide a low battery indicator on face of unit.

System shall operate over temperature range of -20°C to +50°C.

System shall operate from 120V ac  $\pm 10\%$ . Provide a power line surge protector. Provide a telephone line isolator and surge protection.

Provide services of factory-trained personnel to perform initial start-up, message programming, and to instruct OWNER's operating personnel in operation and maintenance of equipment.

### PART 3 - EXECUTION

#### GENERAL

Examination, Installation, Field Quality Control, Demonstration: In accordance with Basic Instrumentation Requirements.

END OF SECTION 16930.