INTRODUCTION

SentriDial is a full-featured, economical industrial autodialer. Users can monitor 8 discrete inputs (normally open or normally ground) and 4 analog inputs (voltage or current level) and control 1 relay output and 3 open collector outputs remotely via telephone. Upon sensing an alarm condition, SentriDial automatically alarms via a user programmable list of phone numbers with specific user recordable voice messages stored in solid state memory or optional alphanumeric text pages. Configuration is via a friendly menu driven interface that does not require special training for system operation. The standard SentriDial features a rugged, metal case. As an option, users can purchase the SentriDial integrated into a fiberglass or steel NEMA 4X case with integrated battery, charger, power supply, and space for a cellphone for rugged applications.

TAP PAGING

Telocator Alphanumeric Protocol (TAP) is standard format for sending text paging information to a paging terminal from a computer or other intelligent machines. This option allows the SentriDial to send text messages associated with an alarm condition through an on-site paging terminal or wide-area paging service. Individual alarm messages can be up to 180 characters long allowing a detailed description of each alarm condition to be sent as a page.

APPLICATIONS

- Economical alarm reporter for security
- Machinery monitoring
- Add voice/page alarms to fire/security systems
- Pump/tank/lift station monitoring
- Agricultural monitoring
- Remote alarming via cellphone
- Engine and battery monitoring
- Remote reset/reboot via phone

FEATURES

- Up to 80 seconds of natural voice messages
- Remotely configurable
- Dial up to 120 phone numbers
- Optional wide-area alpha paging
- 4 remote control outputs via DTMF
- Cellphone compatible
- Built-in configuration menus
- 8 digital and 4 analog alarm inputs
- Voice and programming are battery backed

PROGRAMMABLE FEATURES

	PC	DTMF
Voice Messages		
All's well	X	X
Assign call list to inputs	X	X
Select and set length of message	X	X
Number of times to repeat message	X	X
Set pause between calls	X	X
Record/playback/clear the message	X	X
Edit/remove call list phone numbers	X	X
Page Alarms		
Enter alpha messages for wide-area paging	X	
Set 1, 2, or 3 paging terminals to call	X	
Set terminal phone #, password, parity	X	

ZETRON®

PROGRAMMABLE FEATURES

	PC	DTMF
Alarms		
Set thresholds for analog inputs High and low reset, high and low threshold	X	
Set # of times to repeat alarm cycle	X	X
Set time between retries	X	X
Set acknowledge type:	X	X
Call everyone as long as alarm present		
Call until everyone acknowledges		
Call until one person acknowledges		
Call until someone acknowledges, then call again if alarm is still present after wait period		
Enter 1-15 sec pauses between phone numbers	X	
Enter phone numbers of up to 30 digits	X	
Set input debounce time	X	
Set inputs NO, NC, status, momentary, disabled	X	X
Control/Status/Security		
Set security code	X	
Set acknowledge code and wait period	X	
Set # of rings before answering	X	
Tone or pulse dialing	X	X
Turn control outputs and relay on/off	X	X
Set outputs to latched, momentary	X	
Display status of each alarm	X	

SPECIFICATIONS

Power:	9VAC-RMS or 11-14VDC 80 mA idle, 90 mA typical, 250 mA maximum @ 12VDC 115 VAC with wall transformer Primary Fuse: 2 A
Physical	
Dimensions:	10.25" x 8" x 1.9"
Weight:	2 lb.
Operating Temp.:	0-60 degrees C (32-140 degrees F)
Inputs/Outputs	
Analog Inputs:	4
Range:	0-5VDC, 4-20 mA
Resolution:	8 bit
Protection:	+ 48 VDC (maximum)

Contact Closure Inputs (Digital)

Number:	8
Type:	Contact closure to ground or 0-5 or 5-0 volt change
Logic low:	<0.8VDC or <5 ohm to ground
Logic high:	>2.0VDC or >2 Kohm to ground

Control Relays (Outputs)

Number:	4
Type:	Form C
Capacity:	120 VAC, 0.5 A maximum 28VDC, 0.5 A maximum 60 VA maximum
Voice:	Natural recordable up to 80 seconds
RS-232 Serial Interface:	4800 baud, 8 bits, 1 stop, No Parity Transmit, Receive, Ground No hardware handshaking
Programming Interfaces:	RS-232 Port PSTN dial-up using DTMF Local direct DTMF telephone interface
Communication Interface:	PSTN dial-up using DTMF telephone interface
Audio Output:	20 mVP-P to 2 VP-P
Audio Input:	1-2 VP-P
Approvals:	FCC Part 15 and 68, Industry Canada

Telephone Interface

End-to-End Line:	Standard connection 600 ohm balanced line, automatic line seizure for inbound calls using ring detect.
Connector:	RJ-11C modular 6-wire jack (only 2-wire, TIP/RING used)
Ringer Equivalency:	0.45 dB
Max power output to PSTN:	-10 dBm
DTMF power output to PSTN:	-1.0 dBm
DTMF Timing:	100 msec on, 100 msec off Tone or Pulse Dialing

ORDERING/OPTIONS

- Basic SentriDial without any voice
- Voice Option – 10 sec each (limit 8)
- TAP Paging Option (300 baud or 1200 baud), alphanumeric messages (180 characters maximum)
- DeadBolt Lightning Surge Arrestor
- 220VAC 50Hz Wall Transformer
- 115VAC 60Hz Wall Transformer
- NEMA Case, Battery, Charger, Power Supply

ZETRON

005-0259J   April 2011