

# Model 1512 SentiDial

SPEC SHEET

SentiDial 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, SentiDial 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 SentiDial features a rugged, metal case.

As an option, users can purchase the SentiDial integrated into a fiberglass or steel NEMA 4X case with integrated battery, charger, power supply, and space for a cellphone for rugged applications.

## 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

## 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 SentiDial 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.

## Features

- 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



## Ordering/Options

- Basic SentiDial 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

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## SPECIFICATIONS

Power: 9VAC-RMS or 11-14VDC80mA idle, 90mA typical,  
250mAmaximum@12VDC  
115VAC with wall transformer  
Primary Fuse: 2A

### Physical

Dimensions: 10.25" x 8" x 1.9"  
Weight: 2 lb.  
Operating Temp.: 0-60 degreesC (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

## PROGRAMMABLE FEATURES

### Voice Messages

	PC	DTMF
All's well	X	X
Assign call list to input	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

	PC	DTMF
Enter alpha messages for wide-area paging	X	
Set 1, 2, or 3 paging terminals to call	X	
Set terminal phone #, password, parity	X	

### Alarms

	PC	DTMF
Set thresholds for analog inputs	X	X
High and low reset, high and low threshold		
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

	PC	DTMF
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	

ZETRON AMERICAS  
PO Box 97004,  
Redmond, WA USA  
98073-9704  
P: +1 425 820 6363  
F: +1 425 820 7031  
E: zetron@zetron.com

ZETRON EMEA  
27-29 Campbell Court, Bramley,  
Hampshire RG26 5EG, United  
Kingdom  
P: +44 1256 880663  
F: +44 1256 880491  
E: uk@zetron.com

ZETRON AUSTRALASIA  
PO Box 3045, Stafford Mail Centre,  
Stafford QLD 4053, Australia  
P: +61 7 3856 4888  
F: +61 7 3356 6877  
E: au@zetron.com

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