

1  
Prog

2  
Run

5  
SpkrPh

0  
Status

#  
Enter

Ack  
Clear

Arm  
Reset

Disarm  
Estop


Home

*Remote Monitoring, Control and  
Alarm Notification System*












## *Quick Reference Guide*

## RUN Mode Commands

### Local





-  Status  
 – System status  
 – Channel status
-  Enter Programming mode
-  Speaker Phone
-  Activate Relays
-  Acknowledge alarms
-  Arm the DiaLog to make alarm calls
-  Disarm the DiaLog to prevent alarm calls
-  Hangup phone call in progress

### Remote












-  Status  
 – System status  
 – Channel status
-  Enter Programming mode
-  Listen In
-  Activate Relays
-  \* or,  or,  Acknowledge Alarms when called
-  \*  Toggle Arm/Disarm

## Programming Mode Commands

### Local

-  Enter Run mode
-  Clear current field
-  Reset to factory setting
-  Erase last character
-  Go to top of menu
-  Enter this entry
-  \*  Global enable
-  Previous entry

### Remote

-  Enter Run mode
-  System Status
-  \*  Reset to factory setting
-  \*  Home –top of menu
-  # Enter this entry
-  \*  Global Enable
-   Next entry

## Programming Mode Commands

- 3** **SYSTEM SETUP**
  - 0** System Identification
    - Sys ID Msg
    - Sys ID Num [20 digits] (1)
    - Sys Alpha ID [20 characters] (*DIALOG ELITE*)
  - 1** Access Code [4 digits] (*disabled*)
  - 2** Ring Count [1-20] (2)
  - 3** Date and Time
    - Date and Time Format [0-4] (0 = *mmdyy*)
    - Enter Date and Time
  - 4** System Delays
    - Program to Run Delay [1-1440 minutes] (60)
    - Disarm to Arm Delay [1-1440 minutes] (60)
    - Arm/Disarm Relay List [0-99] (0 - *disabled*)
  - 5** Firmware Version
  - 6** Reset to System Defaults
  - 7** Reset Counters
    - Channel Number [11-98]
  - 8** Speaker Volume [0-9] 0=Off (1)
    - Microphone gain
    - Silence mode [0-1]

#### 4 PHONE SETUP

0 Primary Phone List

-or-

1 Secondary Phone List

N  N List Number [1-16]

N  N List Position [1-16]

Telephone Number (50 digits)

0  1 Modem –  2 Disable  
Modbus RTU  3 (F) Fax

0  2 Modem –  5 (A) Alpha Pager  
ASCII Status report  7 (P) Pager

0  3 Modem – CSV  8 (W) Dial Tone Detect  
Status report  9 (.) 2-second Delay

\* \* tone  
 # # tone

Next Call Delay [5-3600] (30)

Notify Once  0 – Disabled  1 – Enabled

Call Progress

0 Disabled

Call Progress Delay [0-60 seconds] (5)

1 Enabled

2 Call In Acknowledge

1 Automatic

2 Customer Ack

Redial after Acknowledge Delay [0-1440 minutes] (60)

Message Repeat [1-20 times] (2)

**6 SCHEDULE SETUP**

- 0** Status Notification Schedule
  - Telephone List [0-16] (*disabled*)
  - Start Time [hh:mm] (*08:00*)
  - Repeat Interval [5-1440 minutes] (*1440*)
- 1** Telephone Schedule
  - Day [1-8]
  - Primary List Start Time [hh:mm] (*00:00*)
  - Secondary List Start Time [hh:mm] (*disabled*)
- 2** Holiday Calendar
  - Date [mm/dd] [20 entries]

**7 SETUP RELAY LISTS**

- 1** Set Output
  - 1** Set Relay Channel [11-98]
    - Set = (0 = off, 1 = on)
  - 2** Set Relay List [1-98]
    - Set = (0 = off, 1 = on)
  - 3** Set Analog Out [11-98]
    - Set = value
- 2** Setup Relay Lists
  - Relay List Number [1-98]
  - Relay List Position [1-9]
  - Relay Output Channel [01-98]

**8** OPTIONS

**0**, **1** or **2**

UART (GSM only), Port 2 or Port 3

Mode [0-3]

0 = none            2 = Slave  
1 = Debug           3 = Master

Baud Rate

1200	14400	57600
2400	19200	115200
4800	28800	
9600	38400	

Max Idle [1-32000] (250)

Max Time Out [1000-32000] (2000)

RS485  - Disabled  - Enabled

**3**

Modem Setup

ID [1-247] (126)

Max Silence [1-32000] (850)

Max Time Out [1000-32000] (8000)

**4**

Modbus Master Setup

Master Read Rate [1-60] seconds (5)

Full Message Selection / Block Mode [0-1]

Slot Number [1-9]

- Disabled  - Enabled

**5**

Analog Input Options

Open Loop Limit [0.00-4.00] (0.00)

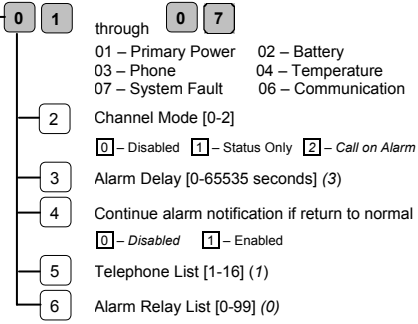
Analog Input Scaling Factor (1.0050)

Offset Factor (1)

**6**

Acknowledge Input Channel [11-98]

**9 CHANNEL CONFIGURATION (System Channels 01-07)**



**9 CHANNEL CONFIGURATION (Digital Input Channels)**

- N** **N** Channel Number [11-68]
  - 0** Channel State
    - Normally Open  - Normally Closed
  - 1** Channel Message / Name
    - Channel audio message [5 seconds]
    - Channel alphanumeric name [20 characters]
  - 2** Channel Mode
    - Disabled
    - Status Only
    - Call on Alarm
    - Call on Limit
    - Totalizer Limit [0-999,999,999 counts] (0)
    - Scaling Value [1-1000] (1)
    - Engineering Units [0-34] (0)
    - Duration Limit [0-999,999,999 seconds] (0)
    - Limit Reset Period [0-999,999,999 minutes] (0)
  - 3** Alarm Delay [0-65535 seconds] (3)
  - 4** Continue alarm notification if return to normal
    - Disabled  - Enabled
  - 5** Telephone list [1-16] (1)
  - 6** Alarm Relay List - [0=disabled, 01-99]
    - Relay alarm state is
      - Off  - On  - Do nothing
    - Relay normal state is
      - Off  - On  - Do nothing
    - Relay off on acknowledge selection is
      - Disabled  - Enabled



**9 CHANNEL CONFIGURATION (Analog Input Channels)**

**N** **N** Channel Number [11-68] (enter channel # first)

**0**

Channel Conversion

Input Type [0-5] (5)

<b>0</b> 0-1V	<b>2</b> 1-5V	<b>4</b> 0-20ma
<b>1</b> 0-5V	<b>3</b> 0-10V	<b>5</b> 4-20ma

Decimal Position [0-5] (1)

Engineering Units [0-34] (0)

Scale Input [0-1] 0=no, 1 = yes

Zero [+/-999999999] (0) Note: \*\* to toggle sign

Full Scale [+/-999999999] (10000)

Min Counts [+/- 65535] (0)

Max Counts [+/-65535] (3931)

**1**

Channel Message / Name

Channel audio message [5 seconds]

Channel alphanumeric name [20 characters]

**2**

Channel Mode

**0** - Disabled

**1** - Status Only

**2** - Call on Alarm **4** Mode2 **5** Mode3 **6** Mode4

Low Limit (dis) (+) Rate of Change (dis)

High Limit (dis) (-) Rate of Change (dis)

Rate of Change Period (dis)

**3**

Alarm Delay [0-65535 seconds] (3)

**4**

Continue alarm if normal **0** - Disabled **1** - Enabled

**5**

Telephone list [1-16] (1)

**6**

Alarm Relay List

Low Alarm Relay List [0-99] (0 = disabled)

Relay low alarm state is

**0** - Off **1** - On **2** -Do nothing

Relay low to normal state is

**0** - Off **1** - On **2** -Do nothing

High Alarm Relay List [0-99] (0 = disabled)

Relay high alarm state is

**0** - Off **1** - On **2** -Do nothing

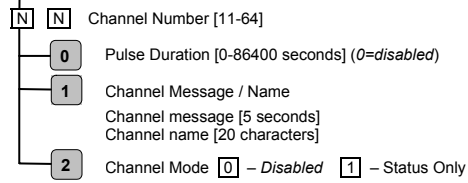
Relay high to normal state is

**0** - Off **1** - On **2** -Do nothing

Relay off on acknowledge selection is

**0** - Disabled **1** - Enabled

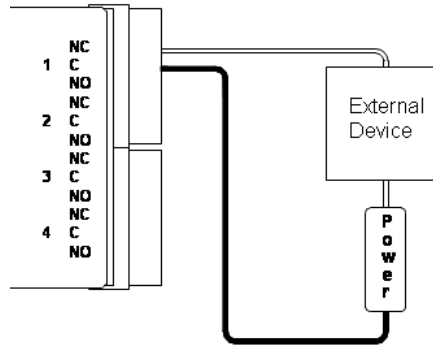
## 9 CHANNEL CONFIGURATION (Relay Output Channels)



### Engineering Units Index

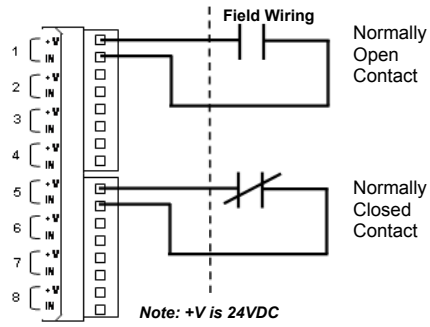
0		disabled	1	8	fps
1		ma	1	9	in
2		a	2	0	ft
3		v	2	1	m
4		deg C	2	2	ppm
5		deg F	2	3	w
6		gal	2	4	kw
7		l	2	5	deg
8		lbs	2	6	psi
9		kg	2	7	pct
1	0	gpm	2	8	pH
1	1	gph	2	9	hz
1	2	mgpd	3	0	khz
1	3	lph	3	1	mgal
1	4	cips	3	2	ppb
1	5	cfpm	3	3	%vol
1	6	cfph	3	4	%lel
1	7	pph			

## Relay Output Card Wiring



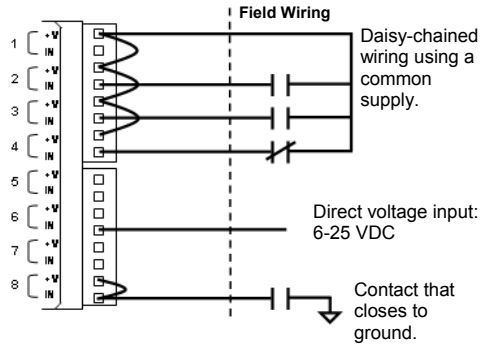
*Wiring a DiaLog relay to an external device*

## Digital Input Card Wiring



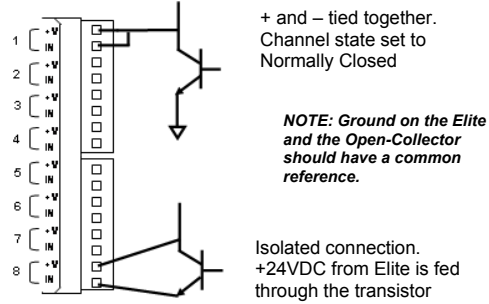
*Separate wiring for each input channel*

# Digital Input Card Wiring



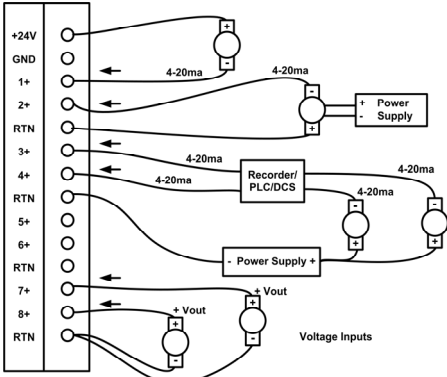
**Note: +V is 24VDC**

*Daisy-chained, direct voltage and closure to ground wiring.*

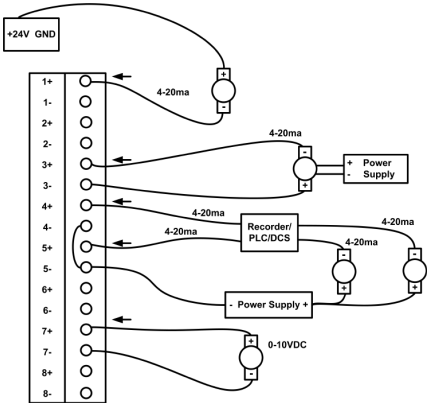


*Open-Collector wiring options*

# Analog Input Card Wiring



Small form-factor analog input card



Large form-factor analog input card.

### System LEDs

LED	Primary Power	Battery	Phone Line	Elite Status
Off	DiaLog is off	No battery or failure		
Solid Green	Primary power active	Fully charged	Off hook	RUN mode
Blinking Green	In Bootloader	Being charged	Ring detected	Storing Config
Solid Red	Power fail alarm ack'd	Battery low alarm ack'd	Line fault	PROG mode
Blinking Red	Power fail alarm	Battery low alarm		Disarmed

### Channel LEDs

LED	Digital Input	Analog Input	Relay Output
Off	Not configured	Not configured	Not configured
Solid Green	Configured	Configured	Configured Not Energized
Blinking Green	In alarm, alarm delay not met	In alarm, alarm delay not met	
Solid Red	In alarm, alarm ack'd	In alarm, alarm ack'd	Energized
Blinking Red	In alarm	In alarm	
Solid Amber	In alarm ack'd Exceeds low alarm in Mode 2 or Mode 3		
Blinking Amber	In alarm, exceeds low alarm in Mode 2 or Mode 3		