

# Remote Power Management & Monitoring System



# MODEL: 1RU8126MS



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Read this manual before using this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury.

Keep this manual in a safe location for future reference.

For other ITS Commander<sup>™</sup> products, previous firmware versions and updates please go to our webpage at http://www.ITSCOMMANDER.com

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# Introduction

The ITS Commander<sup>™</sup> is designed to improve system reliability and lower the cost of ownership through reduced maintenance costs. The system benefits both the owning agency and maintaining agency by promptly sending signals of an abnormal situation, allowing routine monitoring of critical equipment, and providing the capability to remotely control outlets to reboot equipment. These features can reduce unnecessary trips to inspect or service the cabinet thereby saving money.

Southern Manufacturing's ITS Commander<sup>™</sup> may be integrated with ITS enclosures from the factory. Power panel and factory installed equipment are pre-wired and connected.

# Package

The contents of your package are:

- (1) ITS Commander<sup>™</sup> Unit
- (2) Adjustable rack mounting brackets
- (1) Power cord
- (1) Temperature Probe
- (1) Users Manual

MIB, frequently asked questions and support provided at www.ITSCOMMANDER.com

# SAFETY

Read this manual before using this product. Failure to follow the instructions and safety precautions in this manual can result in serious injury .

Keep this manual in a safe location for future reference.

### **Safety Symbols**

The following symbols have been placed thought this manual to reduce the risk of serious injury or death and to ensure the continued safe operation of this product.



Notes provide additional information when completing a specific task or procedure. Notes will be designated by a check mark inside a circle, the word NOTE and a line beneath which the information appears.



Caution is used to provide safety information to prevent damage to the product or connected equipment. Caution is designated by a yellow triangle with a black exclamation mark in the center, the word CAUTION and a line beneath which the information appears

### **Certifications and Compliances**

The ITS Commander<sup>™</sup> is designed, tested and manufactured to meet the requirements of the following national safety standards:



#### FCC Part 15 Class B

This equipment has been tested and found to comply with the limits of Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures (1) Reorient or relocate the receiving antenna (2) Increase the separation between the equipment and receiver (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected (4) Consult the dealer or an experienced radio/TV technician for help.

### NEMA

NEMA TS 2-2003 v02.06 Sections 2.2.7.3-2.2.7.6 , 2.2.8.4 and 2.2.9

This equipment has been tested and found to comply with the NEMA TS 2-2003 environmental requirements as are applicable for this device. The requirements applicable are (1) Operating voltage (2) Operating Frequency (3) Temperature and Humidity (4) Ambient Temperature (5) Humidity (6) Vibration and (7) Shock.



This equipment has been and found to comply with UL requirements and standards.

Standard for Information Technology Equipment - Safety - Part 1: General Requirements, UL 60950-1 and CAN/CSA C22.2 No. 60950-1-07.

Certificate Number 20150410-E469794 Report Reference E469794-A1-UL

Issue Date 2015-APRIL-10



	Spe	cifications
MODEL		1RU8126MS
	Voltage Range	89 VAC- 135 VAC, 120 VAC (Nominal) <sup>1</sup>
	Rated Current	12 Amps
	Circuit Breaker	15 Amps
INPUT	Frequency Range	60 hertz ± 3 Hz
	AC Inlet	IEC C16, 15A, 250 VAC, 60 Hz
	Power Cord	NEMA 5-15P to IEC-C15, 15 A / 125 V
	Surge Suppression	10 kA, L-N
	Outlet Quantity	8
	Outlet Type	NEMA 5-15R, 15A / 125 VAC, 60 Hz
	Dry Contact Input Quantity	12
	Dry Contact Input Connector	24 Position, Screw-less Push-In terminal, 16-24 AWG
	Relay Quantity	6
	Relay Switching Voltage	250 VAC, 125 VDC Max
	Relay Contact Form	SPST-NO (1 Form A)
Relay Contact Rat Relay Connector Temperature Sens Humidity Sensor Temperature / Hu	Relay Contact Rating (Current)	10 A
	Relay Connector	12 Position, Screw Terminal, 12-22 AWG
	Temperature Sensor	Thermistor, R @ 25°C = 10k $\Omega$ , ± 1 % ( 4.1 feet /1.25m)
	Humidity Sensor	26mV / % RH ±3% RH, Linear, 3.3 V Supply
	Temperature / Humidity Connector	5 Position, Screw terminal, 16-30 AWG
	Analog Inputs	2
	Analog Input Connector	4 Position, Screw terminal, 16-30 AWG
	Operating Temperature	-34°C (-30°F) to +74°C (+165°F) <sup>1</sup>
ENVIRONMENTAL	Operating Humidity	0—95 % Relative Humidity <sup>1</sup>
	Storage Temperature, Humidity	-45°C (-50°F) to +85°C (+185°F) / 0-100% <sup>1</sup>
	Dimensions	1.7" x 5.5" x 19"
	Rack Space	1 RU (Rack Unit)
OTHER	Network	10/100/1000 Base-T Ethernet Port, Auto MDI-X
OTHER	Alert Types	Email / SMS / User Interface / SNMP
	Clock	NTP
	Scheduling	100 events, ON—OFF—RESET
NOTES	1. Per NEMA TS2-2003v02.06	

# Features





RE	Α	R
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ITEM	DESCRIPTION
1	Input circuit breaker, 15A
2	Outlets, 15 A, Labeled A trough H
3	Unit Status indicator, Green
4	Outlet Status indicator, Green, labeled A through H
5	LCD Screen
6	Select Button
7	Ethernet Port

ITEM	DESCRIPTION
8	Adjustable rack mounting ears
9	I/O Expansion Port
10	Analog Inputs
11	Temperature and Humidity Inputs
12	Dry Contact inputs 1-12
13	Relay contacts 1-6
14	AC Power In, IEC C16 Inlet

# Mounting

Choose the desired mounting bracket location.

#### Procedure

The ITS Commander is provided with mounting brackets for a standard 19-inch rack. Each mounting ear is removable and adjustable towards the rear or the front .

- 1. Remove retaining screws from unit body
- 2. Choose the location of the bracket, by aligning the mounting bracket holes to the unit body.
- 3. Secure using retaining screws
- 4. Repeat for the other side.







Flush



Front

Recessed





Front Deep Recessed



Ensure to replace all screws in the mounting holes. Empty screw holes should be filled.

5. Mount in a standard EIA 19" Rack with (4) #10 screws.

# Installation



1. Connect an Category 5 (CAT 5) patch cable to the ITS Commander Ethernet port. A straight-through or crossover cable may be used.

2. Connect the other end of the RJ45 patch cable to the user interface (Laptop, PC, etc.).



Stand alone configuration does not provide network time synchronization (NTP). Logging, Scheduling and Notification features will not be available



- 1. Connect an RJ45 patch cable to the ITS Commander Ethernet Port.
- 2. Connect the other end of the RJ45 Patch cable to the network switch.
- 3. User interface may be accessed using a wireless router or direct connection to the network.



CAUTION

Ensure input circuit breaker is in the OFF position before applying power to the unit.



#### Power

- 1. Ensure the input circuit breaker is in the OFF position before proceeding.
- 2. Connect the IEC-C13 (FEMALE) end of the power cord to the rear of the unit.
- 3. Connect the NEMA 5-15P (MALE) end of the power cord to the desired power source (receptacle).

The desired power source may be a PDA (Power distribution assembly) receptacle, or other appropriate power source.

1. The 15 A circuit breaker, located on the front of the unit, may also serve as an ON / OFF switch.



If power or connectivity is lost to the unit, the below message will appear on the summary page.

ERROR: Connection to ITS Commander was lost.



This unit has a safe shutdown feature. This feature provides a few seconds of back up power within the unit to safely shut down and send one last "packet" of information to the server.

### Outlets

- 1. Connect desired equipment to the outlet position using a NEMA 5-15P Plug.
- 2. Outlet labels may be changed in the [Names and Notifications] tab.
- 3. LEDs on the front of the unit labeled A—H indicate the ON / OFF status of each outlet. An illuminated LED means ON.



### Relays

- 1. Connect desired equipment to the relay position using 12–22 AWG wire.
- 2. Relay labels may be changed in the [Names and Notifications] tab.
- 3. LEDs on the rear of the unit labeled Relay 1-6 indicate the OPEN / CLOSED status of each relay . An illuminated LED means CLOSED (current is allowed to flow)



NOTE

Relay contact rating is 10 A max. Relay switching voltage is 250 VAC / 125 VDC max.



CAUTION

Inputs (Dry Contacts) provide their own voltage. DO NOT connect live power to Input (Dry Contact) terminals. Connecting live power to Input (Dry Contact) terminals will result in severe damage to the unit.

### Input (Dry Contacts)

- 1. Ensure the input circuit breaker is in the OFF position before proceeding.
- 2. Connect the desired switch/equipment terminal to the Input position using 16—24 AWG wire. Do not connect live power to the input (dry contact) terminal. Connecting live power will result in severe damage to the unit
- 3. Input labels may be changed in the [Names and Notifications] tab.
- 4. Alarm status for normally open (NO) and normally closed (NC) contact closures may be changed in the [Names and Notifications] tab.
- 5. LEDs on the rear of the unit labeled Input 1-12 indicate the OPEN / CLOSED status of each input . An illuminated LED means a CLOSED input.



The LEDs indicating input status are not linked to the ALARM status in the [Names and Notifications] tab. An illuminated LED means the contact is closed. A closed contact may be the normal condition for that contact. Illumination of an Input LED does not indicate an ALARM condition.



### Humidity Probe (sold separately)

- 1. Ensure the input circuit breaker is in the OFF position before proceeding.
- 2. Connect the humidity probe to the following pins:

Pin 1—3.3 V

Pin 2—HUM

Pin 3-GND

3. Humidity threshold levels may be changed in the [Names and Notifications] tab.



Please visit www.ITSCOMANDER.com to order a compatible humidity probe for this unit.

### **Temperature Probe**

1. Connect the temperature probe to the following pins:

Pin 4—TEMP

Pin 5-GND

2. Temperature threshold levels may be changed in the [Names and Notifications] tab.

### **Analog Input**

- 1. Connect desired equipment to the analog position using 16-30 AWG wire.
- 2. Analog threshold levels may be changed in the [Names and Notifications] tab.



Analog inputs have an isolated ground. Please do not connect chassis ground to this connector.

### I / O Expansion Port

NOTE

The I/O Expansion Port is not implemented in this model.

The ITS Commander<sup>™</sup> can be configured using a web browser. To set up the unit:

1. Enter the following URL in the address bar.





2. When first accessing the user interface, log in to the unit using the default log in information.

		Authentication Required
	ER Take Control <sup>TH</sup>	The server http://192.168.0.50/80 requires a username and password. The server says: Protected. User Name: admin
Summary		Password: ***
Names and Notifications	WARNING: Network time synchronization (NTP) failed.	
Scheduler	View-only mode	Log in Cancel
Unit Log	Please log in to enable controls.	
Configuration		User name: admin
	<b>`</b>	

3. To configure the unit, select the [Configuration]

### System

- Enter the desired system values
  - System name (30 Characters)
  - System location (30 Characters)
  - System contact (30 Characters)
  - Temperature Units ( °F / °C)

Time zone

Reset Interval (in seconds) [1-254 seconds]



Password: its

×



Incorrect settings may cause the unit to lose network connectivity. If connectivity is lost, hold down the front panel button to restore the unit to its default settings.

### Network

Network

CAUTION: Inco restore defaults	rrect settings may cause the	a unit to lose network connectivity. Hold down front panel button to
1P Address:	172.24.1.165	
Gateway:	172.24.1.1	
Subnet Mask:	255 255 252 0	
Primary DNS:	172 24 1 121	
Secondary DNS	0.0.0.0	
NTP Server:	0.0.0.0	(0.0.0.0 means use a public NTP server)
Host Name:	ITSCOMMANDER	

Enter the desired network and system parameters for the unit. [Save Configuration] at the bottom of the page to save changes.



Once the default IP address is changed, navigate to the new IP address by entering the following URL in the address bar of the web browser.

http://{new IP address}

### Email / SMS

- 1. Enter the desired Email address in the recipient fields (1-5)
- 2. For SMS text messaging use the cellphone carrier SMS gateway for email to SMS.
- 3. Enter the SMTP Server
- 4. If required by the SMTP server, enter the Username and Password
- 5. Select SSL if applicable.
- 6. Enter the Port



Your SMTP server may not require a user name or password.



#### NOTE

Contact your cell provider for the correct SMS gateway address.

### **SNMP**

- 1. Enter up to 3 Read and Write Communities as desired.
- 2. Select {Notifications Enabled} if notifications (traps) are desired.
- 3. Enter the Receiver IP address
- 4. Enter the community name.

#### **SNMP** Communities

Read/Write Community String configuration for SNMPv2c Agent.

Configure multiple community names if you want the SNMP agent to respond to the NMS/SNMP manager with different read and write community names. If less than three communities are needed, leave extra fields blank to disable them.

Read Community 1:	public	
Read Community 2:		
Read Community 3:		
Write Community 1:		
Write Community 2:		
Write Community 3:		

#### **SNMP Notifications (Traps)**

Notifications Enabled:		
Receiver IP Address:	0.0.0.0	
Community:	public	



5. Click Save Configuration to save changes

Save Configuration

### Summary Tab

The [Summary] tab contains a live status of the following items:

- **Dry Contact Inputs**
- Power Outlets
- Relays
- Current
- Voltage
- Temperature
- Humidity
- Analog Inputs
- System Parameters

Name:	ITS Commander #2060017
Location	1:
Contact	2.7* •

#### **Dry Contact Inputs**

0	SURGE PROTECTIVE DEVICE 120V
	POWER SUPPLY DC 24V
0	INPUT 3
0	INPUT 4
0	INPUT 5
0	INPUT 6
0	INPUT 7
0	INPUT 8
0	INPUT 9
0	INPUT 10
0	INPUT 11
0	INPUT 12

#### Power Outlets

O ON DESET	
COR RESER	OUTLET D
	OUTLET C
OFF RESET	OUTLET D
OFF RESET	OUTLET E
	OUTLET F
	OUTLET G
	OUTLET H

Unit Information Can be changed in the [Configuration] tab.

#### **Dry Contact Inputs**

Labels can be changed in the [Names and Notifications] tab

Alarm status can be changed in the [Names and Notifications] tab

Dry contact inputs are green when in a non-Alarm status. Default Alarm status is a closed contact.

Dry contact inputs will turn red when in an Alarm status as set in the [Names and Notifications] tab.

Any state change will be reflected in the [Unit Log] tab.

#### **Power Outlets**

Labels can be changed in the [Names and Notifications] tab

Outlets are green when on, they are grey when off

Clicking the [ON] / [OFF] slider, will turn the outlet ON or OFF

Outlets that are grayed out have been set to "Always On" and cannot be toggled on/ off or reset (see [Names and Notifications] on page 20

The reset button turns the outlet off for a specified reset interval then back on. Default reset interval is 10 seconds, and can be changed in the [Configuration] tab, in the system section. The reset button will Flash while resetting.



CLO	OSED	RESET	RELAY 1		Labels
	DSED	RESET	RELAY 2		Relays
	OPEN	RESET	RELAY 3		Clickin
0	OPEN	RESET	RELAY 4	$\int$	The res
	OPEN	RESET	RELAY 5		[Config
	OPEN	RESET	RELAY 6	J	resettir
ANALC Time:	)G 2:	<b>0.0</b> 1:4	VDC 7PM 4/9/2020	(EDT	exceed tab.
System	n Parame	ters		$\prec$	
Firmw	are Versio	n: v2.4.	330		Analog
Serial	Number:	2060	017		Netwo
IP Add	lress:	192.1	68.5.10		
Config	<b>IP</b> Addres	ss: 192.1	68.5.10		
Config	Subnet M	ask: 255.2	55.255.0	~	
Config	Gateway:	192.1	68.5.1		Display
DNS #	1:	8.8.8	.8		Can be
DNS #	2:	0.0.0	.0		00
					1

#### Relays

Labels can be changed in the [Names and Notifications] tab

Relays are grey when open, they are green when closed

Clicking the [OPEN] / [CLOSE] slider, will open or close the relay.

The reset button turns the relay off for a specified reset interval then back on. Default reset interval is 10 seconds, and can be changed in the [Configuration] tab, in the system section. The reset button will Flash while resetting.

#### **Operating Parameters**

Current and Voltage are displayed for the unit

Temperature and Humidity are displayed when sensors are connected, units of measurement can be changed in the [Configuration] tab. Will turn red when upper threshold is exceeded, and blue when lower thresholds are exceeded. Thresholds may be changed in the [Names and Notifications] tab.

Analog 1 and Analog 2 voltages are displayed when connected

Network time and date are displayed when configured in a network

#### System Parameters

Displays all system parameters.

Can be changed in the [Configuration] tab

### Names and Notifications Tab

The [Names and Notifications] tab allows the user to provide meaningful names for:

- Outlets
- Relays
- Inputs
- Analog Inputs
- Power



This tab also allows the user to set the types of notification requested (for all), alarm state (inputs only), and Lower / Upper Limits (Analog and Environmental inputs).

Email

SNMP

### Names and Notifications Tab (continued)

hıs otif	allows you to assign meaningful ication.	names to outl	ets and	indicate	which out	lets, w	hen togg	gled, will trigger
		Notifi	cation	Always	Ping			
Por	t Name	Email	SNMP	On	Enable	Freq	Retry	IP Addr
	OUTLET A	<u> </u>	•			60	4	0.0.0.0
3	OUTLET B		•					
5	OUTLET C							
)	OUTLET D	2						
	OUTLET E							
-	OUTLET F	₹.						
3	OUTLET G							
4	OUTLET H	-						

Port         Name         Email         SNMP         Enable         Freq         Retary         IP Addr           1         RELAY 1         Image: Constraint of the state of			- north	curron	i i i i i i			
1     RELAY 1     Image: Constraint of the second s	Port	Name	Email	SNMP	Enable	Freq	Retry	IP Addr
2 RELAY 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1	RELAY 1	1	•	1	60	4	0.0.0.0
3 RELAY 3 4 4 5 5 RELAY 5 4 4 1 5 7 7 1 5 7 1 1 1 1	2	RELAY 2						
4 RELAY 4 Ø Ø 0 5 RELAY 5 Ø Ø 0	3	RELAY 3						
5 RELAY 5	4	RELAY 4						
6 RELAY 5	5	RELAY 5						
	6	RELAY 6						

#### Outlets

Outlet Labels can be changed for each outlet (max 30 characters)

Select Email to receive an email notification (all state changes)

Select SNMP to receive a "trap" notification (all state changes)

Select Always On to prevent accidental power-cycle or outlet reset from the [Summary] page

The Ping feature is an automatic system for rebooting IP equipment without human intervention. Ping works by cycling power when a device becomes unresponsive to IP pings. To use the Ping, first check the Ping Enable box, then add an IP address for the device connected to Outlet. Enter Freq (in seconds) to specify the time between pings. In the Retry field enter the number of unresponsive pings before the ITS Commander cycles power to the outlet.

#### Relays

Relay Labels can be changed for each outlet (max 30 characters)

Select Email to receive an email notification (all state changes)

Select SNMP to receive a "trap" notification (all state changes)

Select Ping Enable to enable ping feature for specified relay. See Outlet Ping feature described above for further operational details.

ort	Name	Alarm State	No Re-not Int	tification ification erval	Email	SNM
	SURGE PROTECTIVE DEVICE 120V	closed V		hours	0	
	POWER SUPPLY DC 24V	open 🔻	0.25	hours		
	INPUT 3	closed <b>v</b>	)	hours	Û	
	INPUT 4	closed •		hours	0	B
	INPUT 5	closed •		hours		
	INPUT 6	closed *		hours		
	INPUT 7	closed •		hours	$(\Box)$	
	INPUT 8	closed *	Y. [	hours	U	
	INPUT 9	closed •	) [	hours		
0	INPUT 10	closed •	). [	hours		
L	INPUT 11	closed *		hours	U	
2	INPUT 12	closed •	1	hours	0	B

#### Inputs

Input Labels can be changed for each outlet (max 30 characters)

Select the Alarm State of Closed or Open

- Closed (Alarm status is when the contact is closed)
- Open (Alarm status is when the contact is open)

Re-Notification Interval can be set if re-notification is desired after the original alarm notification was sent.

Select Email to receive an email notification (Alarm Status)

Select SNMP to receive a "trap" notification (all state changes)

Inputs

### Names and Notifications Tab (continued)

Name       Port     Name       .1     ANALOG 1       .2     ANALOG 2       nalog input voltage hysteresis	Limits N Lower Upper E volts volts	Notification mail SNMP	Analog Input Labels can be changed for each outlet (max 30 characters)
ANALOG 1	volts volts		Cat Lawan and Llanan threads ald line to
nalog input voltage hysteresis			Set Lower and Opper threshold limits
	: 10 volts		Select Email to receive an email notification (threshold limits)
			Enter the desired voltage hysteresis (default 1 volt)
			Environmental
Name Limits Name Upp Imperature 32 125 elative Humidity 20 85	Notification Sense er Email SNMP En of Ø	sor Input hable ♥ ♥	Set Lower and Upper threshold limits Temperature units may be changed in the [configuration] tab. Select Email to receive an email notification (threshold limits) Select SNMP to receive a "trap" notification (threshold limits) Select "Sensor Input Enable" to activate environmental reporting
Power Name Power Up Power Down	Notification Email SNMP		<b>Power</b> Select Email to receive an email notification on Power up or down Select SNMP to receive a "trap" notification

#### Click Submit to save changes

### Scheduler Tab

The [Scheduler] tab allows the user to schedule up to 100 events.

For each event, there are several options:

Not Scheduled ▼ Not Scheduled Once Daily Recurring Weekly Recurring Weekly pattern Monthly pattern



Event 1	Once 🔻	Name	ONCE ACTION	Port	RELAY 1	Clear
Time	3 ▼: 10 ▼ PM ▼	on	8/25/2014 🛄	Action	reset •	7
		Next: 3:	10PM 8/25/2014			

	Once
NAME:	Event label can be changed (max 30 characters)
TIME:	Time for the desired event
ON:	Date for the desired event
PORT :	Outlet / Relay to be affected
ACTION:	Action taken during the event
NEXT:	Lets the user know (after changes have been saved) when the next scheduled action is to take place for that event
Event 1	aily Recurring   Name DAILY ACTION  Port RELAY 1   Clear

Event 1	Daily Recurring 🔻	Name DAILY ACTION	Port RELAY 1  Clear
Time	3 • : 10 • PM •	starting 8/25/2014	Action reset
		Recur every10 day(s) 𝔄 Forever,	or times
		Next: 3:10PM 8/25/2014	

	Daily Recurring
NAME:	Event label can be changed (max 30 characters)
TIME:	Time for the desired event
STARTING:	Date for the first occurrence of the desired event
PORT :	Outlet / Relay to be affected
ACTION:	Action taken during the event
RECUR:	Every [ # ] days, forever or for a specified # of times required
NEXT:	Lets the user know (after changes have been saved) when the next scheduled action is to take place for that event

### Scheduler Tab (continued)

Item 1	Weekly Recurrir 🔻	Name WEEKL	Y ACTION		Outlet	OUTLET A 🔻 Clear				
Time	4 •: 00 • PM •	starting 8/6/2014 Next: 4:0 Recur every 10	и ООРМ 8/26/2014 week(s) 🕑 Fo	rever, or	Action times	off 🔹				
			Weekly Recurring							
NAME:	Event lab	el can be changed (r	max 30 characters)							
TIME:	Time for the desired event									
STARTING:	Date for th	ne first occurrence c	of the desired even	t						
OUTLET / RE	ELAY : Outlet / Re	elay to affected								
ACTION:	Action taken during the event									
RECUR:	Every [ # ] weeks, forever or for a specified # of times required									
NEXT:	Lets the us that event	ser know (after char :	nges have been sav	ved) when the	next scheduled ac	tion is to take place for				
Item 1	Weekly pattern 🔻	Name WEEKLY F	PATTERN		Outlet	RELAY 1 V Clear				
Time	3 ▼:10 ▼ PM ▼	on Sun Mor Next: 3:10F	□	Thu Fri	Sat Action	reset V				
			Weekly Pattern							
NAME:	Event lab	el can be changed (	max 30 characters	)						
TIME:	Time for t	he desired event								
ON:	Days of th	e week when the ev	vent is to occur							
OUTLET / RI	ELAY : Outlet / R	elay to affected								
ACTION:	Action tak	en during the event	t							
NEXT:	Lets the u that even	ser know (after chai t	nges have been sa	ved) when the	next scheduled a	ction is to take place for				

### Scheduler Tab (continued)

Item 1	Monthly patt	pattern Vame MONTHLY PATTER							Outlet	RELA	Y1 •	Clear		
Time	3 •: 10	PM 🔻	on Days of month (e.g. 1,6,15)2,4,5							Action reset				
				Coh.	Mar		May			0	Cont	Øet		
			Jan	Feb	Mar	Арг	мау	June	July	Aug	Sept	OCL	NOV	Dec
						Month	y Patter	'n						
NAME:		Event la	vent label can be changed (max 30 characters)											
TIME:		Time for	me for the desired event											
ON:		Days of t	the mo	nth whe	en the e	vent is t	o occur	(multiple	e may be	separat	ted by a c	oma)		
OUTLET / I	RELAY :	Outlet /	Relay t	o affect	ed									
ACTION:		Action ta	aken du	iring the	e event									
MONTHS:		Select m	ionths i	n which	the eve	ent is to	occur							
NEXT:		Lets the that eve	user kr nt	now (aft	er chan	ges hav	e been s	aved) wh	ien the r	next sch	eduled ac	tion is t	o take pl	ace for



Ensure to click SAVE after making the desired changes.



# NOTE

The first screen always shows the first 10 events, to see more events click NEXT at the bottom of the page.



#### NOTE

Up to 100 events may be scheduled

### Live Log

The [Unit Log] tab allows the user to view, download and set the interval for system status log.

Following a device restart, the last 100 events are pre-loaded into view, allowing events prior to power cycle to be viewed.

Select a records start date and click {Retrieve Log}, the first 10 log entries are displayed. Click {NEXT} to navigate trough further entries.

To download the log file. Select the records start and stop date and click {Retrieve Log}

Summary	
Names and Notifications	
Scheduler	
Live Log	
Configuration	
Configuration File	
Security	
Firmware	

Time	Event		
2/16/2016 8:56:53AM EST	Line power restored		
2/16/2016 8:56:54AM EST	Temperature (67 F) above upper limit		
2/16/2016 9:00:00AM EST	Humidity (19%) below lower limit		
2/16/2016 9:10:25AM EST	Network time synchronized		
2/16/2016 9:10:25AM EST	Line power restored		
2/16/2016 9:10:26AM EST	Temperature (67 F) above upper limit		
2/16/2016 9:48:18AM EST	POWER SUPPLY INPUT 120V closed		
2/16/2016 9:48:19AM EST	POWER SUPPLY INPUT 120V opened		
2/16/2016 9:48:21AM EST	POWER SUPPLY INPUT 120V closed		
2/16/2016 9:48:21AM EST	RELAY 2 closed		
2/16/2016 9:48:22AM EST	RELAY 3 closed		
2/16/2016 9:48:22AM EST	RELAY 4 closed		
2/16/2016 9:48:24AM EST	RELAY 5 closed		
2/16/2016 9:48:24AM EST	RELAY 6 closed		
2/16/2016 9:48:28AM EST	POWER SUPPLY INPUT 120V opened		
2/16/2016 9:48:28AM EST	RELAY 2 opened		
2/16/2016 9:48:29AM EST	RELAY 3 opened		
2/16/2016 9:48:29AM EST	RELAY 4 opened		
2/16/2016 9:48:31AM EST	RELAY 5 opened		
2/16/2016 9:48:32AM EST	RELAY 2 closed		
2/16/2016 9:48:32AM EST	RELAY 4 closed		
2/16/2016 9:48:35AM EST	POWER SUPPLY INPUT 120V closed		
2/16/2016 9:48:36AM EST	RELAY 2 opened		
2/16/2016 9:48:36AM EST	RELAY 3 closed		
2/16/2016 9:48:37AM EST	RELAY 4 opened		
2/16/2016 9:48:37AM EST	RELAY 5 closed		
2/16/2016 9:48:38AM EST	RELAY 6 opened		
2/16/2016 10:02:08AM EST	POWER SUPPLY INPUT 120V opened		
2/16/2016 11:00:28AM EST	POWER SUPPLY INPUT 120V closed		
Reco	rd system status every hours Save		
Log recor Note: Star	ds Start Date: 2/16/2016 Stop Date: 2/16/2016		

Download Data

The unit is able to save thousands of records. When the unit reaches the end of the allocated log memory, the oldest record will be over written. Download the log periodically in order to avoid losing data.

### Configuration

The [Configuration ] tab allows the user to configure the unit as desired.

This tab is covered in the SET UP section of this manual

### **Configuration File**

The [Configuration File] tab allows the user to download and upload saved configurations.

In order to ease the set up of multiple units, the configuration may be downloaded and saved in a user defined location.

The configuration file may also be uploaded into a unit.

Items covered in the configuration file:

Schedule

Names and Notifications	Security	
Names and Notifications		Firmware
Download Conf	figuration	8
Select configuration file to be uploaded. File: Choose File No file chosen	Upload Configuration	
To download a configuration file 1. Click {Download Configuration}	<b>To specify file name and file save location</b> 1. Right-lick {Download Configuration}	

- 2. File will automatically download
- 3. Move file to desired location

- 2. Select "Save Link As" or "Save As"
- 3. Select location in which to save file and choose file name
- 4. Click "Save"



Different internet browsers require permissions to download this type of file. Contact your systems administrator for assistance in downloading the configuration file.

To upload a configuration file

- 1. Click {Choose File}
- 2. Navigate to the configuration file desired
- 3. Click {Upload Configuration}
- 4. Configuration is not loaded into the unit

Summary

Names and Notifications

Scheduler

Live Log

File

Configuration

Configuration

### Security

The [Security ] tab allows the user to change the password assigned to the unit

To change the password:

- 1. Enter the old password (Default: its)
- 2. Enter the new password
- 3. Click {Change Password} to enact changes.



### Firmware

The [Firmware] tab allows the user to change the download firmware updates. Please visit www.ITSCOMMANDER.com to download firmware updates for this unit.

To download a firmware update:

- 1. Click {Choose File}
- 2. Navigate to the downloaded firmware file
- 3. Click {Upload}
- 4. Once the file has uploaded, verify that the new firmware version appears as a Staged firmware version, to un-do the staging simply click {unstage}
- 5. Click {Reset} to apply the new firmware







Please visit www.ITSCOMMANDER.com for firmware updates

# **Technical Assistance**



### NOTE

Please visit www.ITSCOMMANDER.com for Q & A and Technical Assistance. You may also email us at support@ITSCOMMANDER.com or phone us at (800) 866-5699



# **ITS COMMANDER Three Year Limited Warranty**

Earnest Products, Inc., (EP) warrants the ITS Commander, when properly installed and operated as outlined in the user's manual, against faulty materials or workmanship for a period of three (3) years from the earlier of the date it is placed in service or 120 days from shipment. Extended Warranties are available for additional fee at time of purchase.

This device is intended to be installed after the appropriate primary surge device and is not intended to replace or preform the function of primary surge protection. In addition, it is recommended that secondary surge protection be used on the relays if they are connected to external devices such as cameras. The unit is intended to be used powered from a properly wired and grounded outlet with the cord that is supplied with the unit. EP warranty is limited to replacement of the device with a new or remanufactured device at the sole discretion of EP.

THIS WARRANTY SPECIFICALLY EXCLUDES DAMAGE CAUSED BY IMPROPER INSTALLATION, DAMAGE CAUSED BY A THE INSTALLER, DAMAGE CAUSED BY ROADWAY TRAFFIC, ACTS OF VANDALISM, ACTS OF GOD, NORMAL WEAR AND TEAR, MODIFICATIONS OR ALTERATION OTHER THAN NORMAL MAINTENANCE, OR OTHER OCCURANCES OUTSIDE OF THE SELLERS CONTROL. THIS WARRANTY EARNEST DOES NOT OBLIGATE PRODUCTS. INC. TO BEAR ANY TRANSPORTATION, REMOVAL OR INSTALLATION CHARGES IN CONNECTION WITH THE INSPECTION, REPAIR, OR REPLACEMENT OF DEFECTIVE PARTS. EARNEST PRODUCTS, INC. OBLIGATION UNDER THIS WARRANTY SHALL NOT INCLUDE ANY LIABILITY FOR DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES OR DELAYS.

The purchaser assumes the responsibility for properly completing, installing, and grounding the enclosure in accordance with applicable industry standards, local electrical and safety codes, and any other applicable standards.

THIS WARRANTY CONSTITUTES THE ENTIRE WARRANTY WITH RESPECT TO THIS PRODUCT AND IS IN LIEU OF ALL OTHERS, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OR OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND IN NO EVENT IS EARNEST PRODUCTS, INC. RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER. To obtain warranty service contact Customer Service at Earnest Products, Inc. in Sanford, Florida by phone, email, or mail to obtain a return material authorization (RMA) number. The email address is <u>contactus@itscommander.com</u> and the phone number is 407-831-1588 or 800-866-5699.

#### Warranty Repairs

- All returns require an RMA number whether it is for warranty or non-warranty repair, damage, inspection, or any other reason. Returns without an RMA number may be refused.
- The following information should be provided when requesting an RMA:
  - Original customer
  - Purchase order and date.
  - Date product was installed if known.
  - Number of items or parts to be returned.
  - Model and serial number (these are contained on a label permanently affixed to the back of each unit).
  - Reason for return.
  - Action requested.
  - Contact name, telephone number and email address.
- Package the item or items in appropriate packaging. The shipping address is
  - Earnest Products, Inc.
  - 2000 E Lake Mary Blvd.
  - Sanford, FL 32773
- Mark the box prominently with Earnest Products Return Goods Authorization Number.
- Freight charges on all products returned to Earnest Products, Inc. shall be paid by the customer unless authorized in writing by Earnest Products, Inc. Collect shipments will be refused.

Earnest Products, Inc. will repair or replace any parts that it determines to be covered by warranty at its sole discretion. Earnest Products shall contact the customer with an estimated cost prior to making any repairs not covered by warranty.

#### **Non-Warranty Repairs**

Earnest Products offers repairs of your ITS Commander for units that of out of the warrantied time frame at the customer's expense. To obtain a non-warranty service contact Customer Service at Earnest Products, Inc. in Sanford, Florida by phone, email, or mail to obtain a return materials authorization (RMA) number. The email address is contactus@itscommander.com and the phone number is 407-831-1588 or 800-866-5699.

- All non-warranty repairs must be accompanied by a Purchase order for \$200. This fee will cover diagnostics and be applied to the cost of the approved repairs.
- All returns require an RMA number whether it is for warranty or non-warranty repair, damage, inspection, or any other reason. Returns without an RMA number may be refused.
- The following information should be provided when requesting an RMA:
  - Original customer
  - Purchase order and date.
  - Date product was installed if known.
  - The number of items or parts to be returned.
  - Model and serial number (these are contained on a label permanently affixed to the back of each unit).
  - Reason for return.
  - Action requested.
  - Contact name, telephone number, and email address.

Earnest Products will provide an order acknowledgment for the cost of repairs to the ITS Commander if said costs exceed the \$200 diagnostic fee. If the repairs are covered by the \$200 diagnostic fee the unit will be repaired. If the repair exceeds the \$200 diagnostic fee the customer will be contacted and given the option to revise their P.O. or deny the repairs. Once the revised purchase order is received the unit will be repaired. If repairs are not approved by the customer a \$50 charge will be applied and a refund of \$150 will be sent back to the customer.

 Package the item or items in appropriate packaging. The shipping address is Earnest Products, Inc.

2000 E Lake Mary Blvd.

Sanford, FL 32773

Mark the box prominently with Earnest Products Return Materials Authorization Number.

• Freight charges on all products returned to Earnest Products, Inc. shall be paid by the customer unless authorized in writing by Earnest Products, Inc. Collect shipments will be refused.

Repaired units not covered under the original manufacturer's warranty will have a 30-day warranty on repairs made to the unit.