



Pulse[™] Series Remote Monitoring Systems

Operations Manual

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Version 1.0

Welcome

Welcome to the Accurate Logic - Pulse[™] Series Remote Monitoring System Operations Manual. The primary purpose of this document is to allow your personnel to become familiar with the system's equipment and its operation. The secondary function of this manual is to serve as a training guide; consequently, you will find more equipment and process detail than in a typical, industrial user's manual.



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PulseTM is an industrial self-contained remote monitoring system. It gathers data out on the production floor that can be viewed via the web anywhere in the world or as close as your office.

About this Guide

This guide describes:

- how to setup the system.
- the basic features of your PulseTM Series Remote Monitoring System.
- how to make basic changes.
- how to perform troubleshooting.

The system has hardware and software that needs to be setup before the system can start running. When configuring the Ethernet and Email settings, an IT technician will be required.

Hardware Setup

The hardware setup is easy to configure.



Pulse Software Setup

To enter the configuration setup for the Pulse unit, press the

toolbox button⁽¹⁾. This should bring up the Configuration Screen. You should configure the system in this order:

- Ethernet
- Sensors
- Email
- System

SIEMENS	SIMATIC P	ANEL
Configure Your Pulse		
	Ethernet	
	Sensors	
ВАСК	E-Mail	
	System	

Ethernet Setup

Press the <u>Ethernet</u> button on the Main Configuration Screen. You will need to enter an IP Address, Subnet, and Gateway for your Pulse unit. Your IT Technician should provide with you with this information. Simply click on the screen and use the keypad to enter the information. Click the <u>SAVE and EXIT</u> button after you have finished.

Note: The MAC address will be shown on this screen if your IT Department needs it.

SIEMENS SIMATIC	PANEL
Configure Ethernet	
IP Address: 000 , 000 , 000 , 000	ĪŠ
Subnet: 000 , 000 , 000 , 000	I Ĭ
Gateway: 000 , 000 , 000 , 000	1
Current Settings	
IP: 000 000 000 000	
Gateway: 000 000 000 000	
SAVE and EXIT MAC: 00 00 00 00 00 00	

Sensors Setup

You need to configure the Sensors that you plugged into the unit by pressing the sensors button on the Configuration Screen.

SIEME	١S			SIMATIC PA	ANEL
	С	onfigure Se	nsors		
	1	Name 0000000	Show No	Log No	
	2	000000	No	No	
	3	000000	No	No	
	4	000000	No	No	
		BACK		ADVANCED	

FIELI)	DESCRIPTION
Name 0000000	Pressing sensor. characte the key return b	g the "Name" field allows you to name the The sensor name can be up to six (6) ers long. Press the "Name" field and use pad keys to enter the name and press the outton when finished.
enter key, the	name wi	Il not be saved.
Show No	If you v Pulse U	vould like the counts to be shown on the init, toggle the "Show" option to "Yes".
Log No	If you v logged toggled Siemen You sho you hav	vould like hourly counts to be permanently to a log file, the "Log" button needs to be to "Yes". This data can be viewed using s S7-200 Explorer and Microsoft Excel. buld set this to "Yes" for every sensor that we connected.
Note : This feature will be discussed in greater detail in the "Viewing Log Files" section.		

When finished entering in the Sensor information, press the back button to return you to the Main Configuration Screen.

Advanced Sensor Setup

Each Sensor can be custom configured to fit the product that it is counting. Most of the time this won't be needed, but some products may need some fine tuning. Press the ADVANCED button on the Configure Sensors Screen to access the Advanced Sensor Setup.



For example, suppose you are measuring a box of cereal. If you have the "Type" field set to "Normally Closed", the "On" field will be how long the box of cereal will be in front of the sensor (x100ms), and the "Off" field will be the usual length of time before another box of cereal will meet the sensor. However, if you have the "Type" field set to "Normally Open", the "Off" field will be how long the box of cereal will be in front of the sensor

(x100ms), and the "On" field will be the usual length of time before another box of cereal will meet the sensor.

FIELI	FIELD DESCRIPTION		
No Activity ×100ms 00000	This field will be the length of time before the sensor will report non-activity. This non-activity will be shown on the Pulse Mail Screen as a "?" in front of the Sensor Name. If you use the network to view the report, then the sensor name will be graved out		
Type N.O.	The "Type" option allows you to set the sensor to "Normally Open (N.O.)" or "Normally Closed (N.C.)". This option is given because some sensors are only sold one way.		
Sensor On ×100msSensor Off ×100msThe Sensor must be "On" or "Off" for a least the specified amount of time in ord for the Pulse to count it.		The Sensor must be "On" or "Off" for at least the specified amount of time in order for the Pulse to count it.	

When finished entering in the Advanced Sensor information, press the BACK button to return you to the Configure Sensors Screen.

Email Setup

Press the E-Mail button on the Main Configuration Screen. This is where you need to setup all email information for the Pulse unit.

SIEMEN	IS	SIMATIC PAN	IEL
	Configure E-Mail		
	SMTP Address 000, 000, 000, 000 LOADING E-MAIL DA Label for which Pulse E-Mail is FROM	Port# 000	
	Ex. Pulse@UnitA.com	A	
	SAVE ALL EMAIL SETTINGS	REPORTS	
	BACK (DO NOT SAVE)	REMOTE CALL	

FIELD		DESCRIPTION	
SMTP Address 000 000 00	00 Port# 000	You will need to enter the SMTP address and Port Number for the email account that will be sending all the graphs and queries. Your IT Technician should supply you with this	
		information.	
Note : You can change the default email address that will be used when emails are sent. Just click the box in the middle of the screen and use the keypad to enter the new email address. (It must be in a legal address format.)			
REPORTS	Next, press the ' to setup the ema people who will daily, weekly, m queries.	'Reports' Button il addresses of the be receiving the nonthly reports and	

Note: You have the option of turning off these emails by toggling the buttons to "No".

FIELD		DESCRIPTION
SIEMENS Configure Re	SIMATIC PANEL	Just press the appropriate data box and use the keypad to enter
No 200000000000 Line 2: No No 200000000000 Line 3: 200000000000 Line 4: 200000000000 No 2000000000000 BACK 2000000000000000000000000000000000000	00000000000000000000000000000000000000	the email address. You have the option of turning these emails on and off by toggling the buttons to "Yes" or "No". Press the "Back"
		finished.
SAVE ALL I	EMAIL SETTINGS	addresses have been entered, press the "Save all Email Settings" button.

When finished entering in the email information, press the button to return you to the Main Configuration Screen.

BACK

System Setup

Press the system button on the Main Configuration Screen. You will be taken to the "System Configuration" screen. This is where you need to setup the date/time and administrator password for your unit.

SIE	MEN	IS		SIMATIC P	ANEL
		System C	onfiguration		
		Calibrate Touch	Contrast Increase	Contrast Decrease	
		Set Clock Update Takes 10 Seconds	Day Mnth Year 00 / Jan / 2007 Day of Week Ct Sunday Ct 12/31/20	Hour Min Sec 00 : 00 : 00 urrent Date 000 10:59:59 AM	
		Reset Daily	Reset Weekly	Reset Monthly	
			Administrator Password		
		BACK	0000	Load WEB	

FIELD		DESCRIPTION			
Day Mnth Year	Hour Min Sec	Click the date,			
Set Clock 00 / Jan / 2007	00 00 00	time, and day of			
Update Takes Day of Week	Current Data	week fields and			
10 Seconds Sunday 12/31/2	2000 10:59:59 AM	use the keypad to			
		enter the correct			
		information.			
		Press the "Set			
		Clock" button to			
		save the			
		information			
		entered. The new			
		information will			
		appear under			
		"Current Date".			
Administrator Password Cl	ick the Administ	rator Password Box			
an	d use the keypad	to enter a four (4)			
0000 dig	git number passw	vord. (Default			
pa pa	ssword is 0000.)				
Note: You can Calibrate the Touch screen functionality by					
pressing the "Calibrate Touch" button. Use your finger or a stylus					
and follow the simple instructions given.					

Note: You can reset the Daily, Weekly, and Monthly counts shown on the Details Screen by pressing the reset buttons. More on this in the Pulse Features Section.

When finished entering in the date and time, press the button to return you to the Main Configuration Screen.

BACK

Setup Complete

Everything should be ready to go. You should now have a working Pulse. Press the BACK button to access the Main Pulse Screen.

Pulse Features

Viewing Count Details

Viewing count details for each sensor is very simple. Just look at the Pulse unit. The Main Pulse Screen shows the counts for each sensor installed. It shows totals for the current shift, day, and week.



You can also view sensor details on your company's network. Just type the IP Address of the Pulse Unit in your web browser and you can view Daily, Weekly, and Monthly data for each sensor.

		χ ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ ζ	
N1		٨	
rui	5 C	Λ_{-}	
Production Stat	tistics & Monitori	ng 🗸	
Name	Daily I	Weekly	Monthly
A	14786	58420	375452
В	14441	62146	455250
6	22840	51054	495765
	22040	51554	403703
D	15989	67898	412111
D	15989 Time & Date	67898	412111

Note: If the sensor name is grayed out, then there has not been any production for the period of time specified on the Advanced Sensor Configuration Screen. This time is configured by the operator during the initial setup.

If you wish to view even more detailed information for each sensor, simply click the Sensor Display Line **1000000** 0000000 00000000 This will take you to the Details Screen for that sensor which will show counts for the current hour, current day, current week, current month, current shift, and the Call Count. (The Call Count is how many times a RemoteCall has been made for that sensor that day.) It is the logical state of the sensor.



Sensor details can also be seen on this screen. If the black circle to the left of word "Sensor" is visible, then the sensor is off. If the white circle to the right of the word "Sensor" is visible, then the sensor is on.



Note: Call Count will be reset at 12:00 am every night.

Note: Shift total must be manually reset at the end or beginning of each shift by pressing the RESET SHIFT or TOTAL. If this button is not pressed, it will continue to count indefinitely until the button is pressed.

Resetting Count Details

To reset the daily, weekly, and/or monthly counts:

Press	То
1. Toolbox Button	Access Password Screen
2. Password Box Enter Administrator Password	Use keypad keys to enter the password and then press Enter Configuration
3. System Button	Access System Configuration Screen
4. Reset Daily Button Reset Daily	Reset Daily Totals shown on Details Screen and related emails.
5. Reset Weekly Button Reset Weekly	Reset Weekly Totals shown on Details Screen and related emails.
6. Reset Monthly Button Reset Monthly	Reset Monthly Totals shown on Details Screen and related emails.

Emails from Your Pulse

The Pulse can send a variety of emails:

- RemoteCall Emails to let the recipient know when there is a problem with the Pulse.
- Query Emails to inform the recipient the results of a query done on the Pulse.
- Daily Emails to inform the recipient of the totals for the day.
- Weekly Emails to inform the recipient of the totals for the week.
- Monthly Emails to inform the recipient of the totals for the month.

In this section we will discuss and show the Daily, Weekly, and Monthly emails. (RemoteCall emails are discussed in the "Sending a RemoteCall" section, and Query emails are discussed in the "Querying Data on Pulse Unit" section.) The Pulse Daily, Weekly, and Monthly Totals emails are sent at midnight. They will give the totals for each sensor installed on the Pulse unit.

Inbox						
! D 0	From	Subject	Received V	Size		
	PULSE@LINEA.COM	Pulse Monthly Totals	Fri 7/27/2007 12:05 PM	4 KB		
	PULSE@LINEA.COM	Pulse Weekly Totals	Fri 7/27/2007 12:05 PM	4 KB		
	PULSE@LINEA.COM	Pulse Daily Totals	Fri 7/27/2007 12:03 PM	4 KB		

🖼 Pulse Daily Totals - Me	essage (Plain Text)	
Eile Edit View Insert	Format Iools Actions Help	
From: PULSE@LINEA.CO To: SUPPORT@ACCUF Cc: Subject: Pulse Daily Totals Daily Totals for	M Sent: RATELOGIC.COM 5 /31	Fri 7/27/2007 12:05 PM Pulse Monthly Totals - Message (Plain Text) Elle Edt Wew Insert Format Tools Actions Help Beply @Reply to All @ Forward @ Set \$\$ \$\$ \$\$
A : 14/765 B : 14441 C : 22840 D : 15969	Pulse Weekly Totals - Met Ele Edit View Insert Po Deply Reply to All Co From: PULSEQLINEA.COM To: SUPPORT@ACCURATE Cc: Subject: Pulse Weekly Totals Weekly Totals for S A : 58420 B : 62146 C : 51954 D : 67898	From: PULSE@UNEA.COM Sent: Fri 7/27/2007 12:05 PM To: SUPPORT@ACCURATELOGIC.COM C: Subject: Pulse Monthly Totals Honthly Totals for 5 /31 A A : 375452 B : 455250 C : 485765 D : 412111

Note: The recipient of these emails can be changed at any time. Please see "Changing Email Addresses" for further instructions.

Viewing Graphs on Pulse Unit

Viewing Daily Graph

This graph displays the count for the 24 hours of the day. It also shows the Best Hour of the day. You can use the scroll buttons to see the specific numbers for each hour. This display restarts at 12:00 am.



Press	То
1. Sensor Display Line	View Sensor Details Screen
SHIFT TODAY THIS WEEK	
2. Daily Graph Button	View Daily Graph
DAILY GRAPH	

Viewing Monthly Graph

This graph displays the count for each day of the current month. It also shows the Best Day of the month. You can use the scroll buttons to see the specific numbers for each day. This display restarts at 12:00 am on the 1^{st} of the each month.

SIEMENS	SIMATIC PANEL
Monthly Graph of	000000
Current Day 00	Day 00 for 0000000
BACK	_

Press	То
1. Sensor Display Line	View Sensor Details Screen
SHIFT TODAY THIS WEEK	
2. Monthly Graph Button	View Monthly Graph
MONTHLY GRAPH	

Querying Data on Pulse Unit

Querying Data for a sensor will show many different details for the days and times input: Total Production, Best Daily Total, Best Hourly Total, Hours Up, and Hours Down. This screen also shows the Average Parts Per Hour for Up-Time, First Day, and All Time.

SIEMENS		SIMATIC PA	NEL
Q	uery Of 000000		
HNPU	Month: January Start Day: 1 Loading Data Calculating ResultsEnd Day: 1	Start Hour: 12 AM	
	Total Production: 00000000 Best Day: 0000000 on Day 1 Best Hour: 0000000 on Hour 12 AM Hours Up: 000 Hours Down: 000 BACK	Average Part Per Hour Up-Time: 0000000 First Day: 0000000 All-Time: 0000000 EMailing EMAIL QUERY	

Note: Hours Up is the number of hours for the time input that the Pulse unit actually recorded counts. Hours Down is the number of hours for the time input that the Pulse unit recorded zero counts.

To query a sensor:

Press	То
1. Sensor Display Line	View Sensor Details Screen
SHIFT TODAY THIS WEEK 7000000 0000000 0000000 0000000	
2. Query Button	View Query Screen
QUERY	
3. Month Display Box	Use Keypad to Choose Month
Month: January	
4. Start Day Box	Use Keypad to choose Start Day
Start Day: 1	for Query
5. End Day Box	Use Keypad to choose End Day
End Day: 1	for Query
6. Start Hour Box	Use Keypad to choose Starting
Start Hour: 12 AM	Hour for Query
7. End Hour Box	Use Keypad to choose Ending
End Hour: 12 AM	Hour for Query

The Query results can be emailed to the address setup in the Email Configuration Screen by pressing the QUERY button.

Inbox						
! 🗅 🛿 From	Subject	Received	∇	Size		
PULSE@LINEA.COM	Statistics Report From Pulse	Tue 7/31/2	2007 10:43 PM	4 KB		

🖼 Statistics Report From Pulse - Message (Plain Text)	
Ele Edit View Insert Format Tools Actions Help	
🗄 🔀 Reply 🏹 Reply to Ali 🖾 Forward 🔄 💷 🍋 👻 🎽 🕌 🔪 🐇	A Ø -
From: PULSE@LINEA.COM	Sent: Tue 7/31/2007 11:18 PM
To: SUPPORT@ACCURATELOGIC.COM	
Cc: Subject: Statistics Report From Pulse	
Line: 4	<u>^</u>
Month: 6 Days: (1 to 31) Time: 0:00 to 23:59	
Total: 5849452 Hours Up(360) Hours Down(384) Average: Up(16248.48) First(16762.50) All(7862.17) Best Day 5: 489792 Best Hour 9: 31827	

Viewing Log Files

What is a log file? Log files contain all data collected since the unit was first installed. (The Log option has to be turned on in the Configure Sensors Screen in order for data to be written to the file.) It is broken into four files (one for each sensor).

To view the log file generated by the Pulse unit, you will need to download Siemens S7-200 Explorer. You can download this program directly from the Siemens website or from a link on the Accurate Logic website (www.accuratelogic.com).

Once you have the program, click to install. Follow the online instructions. Once you get to the menu where you have to set the PG/PC Interface, choose the "TCP/IP(Auto) -> [YOUR ETHERNET CARD]". The program will finish installing and you must then restart your computer.

Once the program has been installed, start it by clicking the S7-200 Explorer icon.



This will open the explorer program. Right-click on "My S7-200 Network" under folders and then choose IP Address Browser.

Click the "New Address" button and type in the IP Address of the Pulse Unit and a description then click the "Save" button. Click the "OK" button when finished.

IP Address Brows	er				×
There are no IP Addr to add IP Addresses I	esses curren for use.	tly defined o	n your syste	m. Click 'N	ew Address'
IP Address	Local	Remote	Descriptio	on	
<					>
Address & TSAP Pr	operties				
IP Address		Local	Remote		
192 . 168 .	1 . 105				
Description for this	address				
Pulse Unit					~
Delete Address				Sav	•
New Address]		OK		Cancel

The Pulse Unit IP Address should now be listed. Double click the IP Address.

File Edit View F	avorites Tools Help			
🚱 Back 🔹 🌍	🔹 🎓 🔎 Search 🝞	Folders		
Address 🔢 ::{20D04F	E0-3AEA-1069-A2D8-089828	50309D}\::{F2312111-702A-46	6C0-9B5D-0497BDB4E269}	💌 🄁 Go
Folders	Address	*	Туре	
	192.16	8.1.105) CPU 224 - REL 02.01	57-200 PLC	

Then double click "256k Memory Cartridge".



This will bring up the sensors installed on the Pulse Unit. Double click the sensor you want to see the details for.

😂 256k Memory Cartridge			
File Edit View Favorites Tools Help			1
🔇 Back 🔹 🕥 - 🏂 🔎 Search 📂 Folders 📰 -			
Address 😑 256k Memory Cartridge			💌 🄁 Go
Folders X Mane	Size	Туре	Modified
My 57-200 Network	60 KB	Data Log	6/11/2007 10:54 AM
(192,168,1,105) CPU 224 - REL (USLine 2 Daily History (DAT1)	60 KB	Data Log	6/11/2007 11:12 AM
256k Memory Cartridge Siline 3 Daily History (DAT2)	60 KB	Data Log	6/11/2007 11:14 AM
	60 KB	Data Log	6/11/2007 11:17 AM

This will open the data file using Microsoft Excel. The dates are listed on the left most column. This data file is broken up by day and hours. This data file will show all of the data the sensor has collected since it was installed. This file can hold three (3) years of data and will start rewriting from the oldest date after the three years are over.

E 1	Aicrosoft E	scel - (192	.168.1.10	5) - Line 1	Daily Histo	ry - 7-19	2007 12-2	1 PM.csv								
:81	File Edk	View Ins	ert Format	Tools D	ata Window	Help	Adobe PDF									
1.00	-2.13.0	0.0	- 1 ARC AN	L M D			10.0	AL 2114	a of com		f. a. of					- 1969 I
:			0.12.0	1.8.43	🖉 + 🔌 🕛) - (* •	ν 😹 Σ 🔹	24 24 🕅	49 100%		Anal		- 10 -	вхц		
1	1															
_	A1	· .	∱ DATE													
	A	В	¢	D	E	F	G	н	1	J	K	L	M	N	0	P
1	DATE	L1_12am	L1_1am	L1_2am	L1_3am I	_1_4am	L1_5am	L1_6am	L1_7am	L1_Barn	L1_9am	L1_10am	L1_11am	L1_12pm	L1_1pm	L1_2pm
2	9/1/2007	5555	0	0	0	- 0	0 0	0	0	0	0	0	0	0	0	J
3	8/1/2007	777	0	0	0	0	0 0	0	0	0	0	0	0	0	0	3
4	7/4/2007	8193	0	0	0	0) 0	0	0	0	0	0	0	0	0	j
5	7/3/2007	4321	0	0	0	0	0 0	0	0	0	0	0	0	0	0	j l
6	6/30/2007	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	J
7	7/1/2007	777	777	777	777	(0	0	0	0	5555	5575	5675	0	0	J
8	6/30/2007	0	0	0	0	() 0	0	0	0	0	0	0	0	0	j
9	6/30/2007	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	J
10	3/31/2007	0	0	0	0	(0 0	0	0	0	0	0	0	0	0	j
11	6/14/2007	0	0	0	0	() 0	0	0	0	0	0	17	0	1	1
12	7/14/2007	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	j
13	7/12/2007	0	0	0	0	0	0 0	0	0	0	0	4	1	0	0	j l
14	7/7/2007	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	j
15	6/22/2007	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	j i
16	6/21/2007	4928	4944	4945	4940	4940	4927	4927	4921	4920	4914	4913	4917	4913	4911	1 6
17	6/20/2007	0	0	0	0	0	0 0	0	0	0	0	0	3379	4921	4936	3
18	6/19/2007	0	0	0	0	0) 0	0	0	0	0	0	0	0	0	J
19	6/18/2007	0	0	0	0	0) 0	0	0	0	0	0	0	0	0)
20	6/17/2007	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	3
21	6/16/2007	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	J
22	6/15/2007	0	Û	0	0	0	0 0	0	0	0	0	0	0	0	0)
23	6/14/2007	0	0	0	0	0) 0	0	0	0	0	0	0	0	0	J
24	6/12/2007	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	J
25	6/11/2007	0	0	0	0	(0	0	0	0	0	0	0	0	C	J

Note: This data file is an excellent source for creating graphs.

Sending a RemoteCall

If the operator notices trouble on the line that a sensor is monitoring, they can send an emergency email to the address that was setup in the RemoteCall Email Configuration Screen. This email will be sent immediately and notify the recipient of which sensor is having a problem.

To send a RemoteCall, the operator just needs to press and hold the button for the line that is having problems. When the button starts to blink red, the user can release the button.

Inbox			
‡ [] [] [] From	Subject	Received 🗸	Size
PULSE@LINEA.COM	Assistance Requested on Line C	5at 7/14/2007 2:01 PM	4 KB



Making Changes to Your Pulse

Turning On/Off Count Display on Unit

The counts shown on the Main Pulse Screen can be toggled on or off for each sensor.

Press	То
1. Configuration Button	Access Password Screen
2. Password Box Enter Administrator Password	Use keypad keys to enter the password and then press Enter Configuration
3. Sensors Button Sensors	Access Sensor Configuration Screen
4. Show button Show No	Toggle On/Off Counts Display on Unit.

Note: This will not stop the count. This only stops the counts from displaying on the unit itself. Once the display is turned off, the Details Screen will be unavailable.

Changing Sensor Name

The sensor names can be renamed at any time. Because the Sensor name affects the emails that are sent, any changes made to sensor names need to be saved through the Email Configuration Screen.

Press	То
1. Toolbox Button	Access Password Screen
2. Password Box Enter Administrator Password	Use keypad keys to enter the password and then press Enter Configuration
3. Sensors Button Sensors	Access Sensor Configuration Screen
4. Name Display Box you wish to change Name	Use keypad keys type in new sensor name.
5. Back Button BACK	Return to Main Configuration Screen
6. Email Button E-Mail	Access Email Configuration Screen
7. Save All Email Settings Button SAVE ALL EMAIL SETTINGS	Save changes made to sensor names, so they will be changed in the emails.

Note: The sensor name can be up to six (6) characters long. If you enter more than six (6) characters and press the enter key, the name will not be saved.

Changing Email Addresses

Changing Reports Email

You can change the email addresses of where the daily, weekly, monthly and query reports get sent.



Press	То
7. Save All Email Settings	After changes have been made,
Button	press the "Save all Email
SAVE ALL EMAIL SETTINGS	Settings" button.

Changing Remote Call Email

You can change the email addresses of who gets the emergency emails when the Remote Call buttons are pressed on the Pulse unit.

Press	То
1. Toolbox Button	Access Password Screen
2. Password Box	Use keypad keys to enter the password and then press
Enter Administrator Password	Enter Configuration
3. Email Button	Access Email Configuration
E-Mail	Screen
4. Remote Call Button	Enter Configure Remote Call
REMOTE CALL	Email Screen
5. Email Display Box	Use keypad keys type in new email address.

Changing Email Label

When emails are sent from the Pulse unit, they come from an address which can be changed.



Note: The email address must be in a legal format.

Changing Date/Time

There may be a time when you need to reset the date/time of the Pulse unit.

Press	То
1. Toolbox Button	Access Password Screen
2. Password Box Enter Administrator Password	Use keypad keys to enter the password and then press Enter Configuration
3. System Button	Access System Configuration Screen
4. Keypad Keys Dav Mnth Year 00 /Jan / 2007 00 ; 00 ; 00 ; 00	Use keypad to Change Date/Time
5. Set Clock Button Set Clock	Save Date/Time Information

Changing Administrator Password

There may be a time when you need to reset the date/time of the Pulse unit.

Press	То
1. Toolbox Button	Access Password Screen
2. Password Box Enter Administrator Password	Use keypad keys to enter the password and then press Enter Configuration
3. System Button System	Access System Configuration Screen
4. Administrator Password Data Box	Enter New Password (4 numerical)

Changing Screen Contrast

You can change the color contrast of the screen.

Press	То	
1. Toolbox Button	Access Password Screen	
2. Password Box Enter Administrator Password	Use keypad keys to enter the password and then press	
	Enter Configuration	

Press	То
3. System Button	Access System Configuration Screen
System	
4. Contrast Increase	Change color contrast of the screen.
Contrast	
Increase	
5. Contrast Decrease	Change color contrast of the screen.
Contrast	
Decrease	

Changing Ethernet Information

You can change the IP Address, Subnet, and Gateway information.

Press	То
1. Toolbox Button	Access Password Screen
2. Password Box Enter Administrator Password	Use keypad keys to enter the password and then press Enter Configuration
3. Ethernet Button Ethernet	Access Ethernet Configuration Screen

Press	То
4. Data Boxes	Change information
IP Address: 000 , 000 , 000 , 000	
Subnet: 000 , 000 , 000 , 000	
Gateway: 000 , 000 , 000 , 000	
5. Save Button	Save New Ethernet
SAVE	Information

Troubleshooting

Problem	Possible Cause	Solution
RemoteCall lights are	The network	Plug the cable back in
flashing	cable is not	or call your IT Dept.
	connected or	
	there are	
	network	
	difficulties.	
YF:	The Pulse Unit is	Wait 30 seconds and
blinking on	recovering from	Pulse Unit should
Main Screen	a power failure.	power back on. No
		data will be collected
		during this boot up
		time.
Web page not	If the Pulse unit	Press the Load WEB
showing data.	has been turned	button on the System
	off for an	Configuration screen.
	extended period	This button allows the
	of time, the	web data to be
	pulse's internal	reloaded The button
	web data will	will only be displayed
	need to be	if the system thinks
	reloaded.	the web data has been
		corrupted or lost.
Counts are not	The "Show"	Please follow
showing on the Pulse	option was not	instructions for Sensor
unit.	set to "Yes" on	Setup under "Setting
	the "Configure	up the System"
	Sensors" screen.	section.

Problem	Possible Cause	Solution
Log file does not	The "Log"	Please follow
contain any data.	option was not	instructions for Sensor
	set to "Yes" on	Setup under "Setting
	the "Configure	up the System"
	Sensors" screen.	section.

If your Pulse is having problems, click the warning button on the main screen. This will give further details. If the problems are recurring frequently, please contact Accurate Logic Technical Support at 321-779-0062.

Appendix A

3 Wire NPN Sensor Hookup



Appendix B



Pulse M12 Sensor Connector Pinout