actionair

ACTIONPAC LNS4 USER OPERATING GUIDE

Issue 1 – Feb 18

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FIRST FLOOR GROUND FLOOR	This is the groups screen on the graphical user interface (GUI). In this example you can see that there are two groups of dampers, one ground floor and one first floor. The first floor icon indicates that all dampers are open and healthy and the ground floor icon has no open or closed indication, but indicates that dampers are healthy. This is because on the ground floor there is a mixture of dampers, some are failsafe closed and some are balanced. In the event of a fault the group's icon will turn red. The computer symbol shown in the ground floor icon indicates that one or more dampers are under the control of a building automation system (BAS).	
Groups Group Damper Test		
Event Log Damper Logs DIO Logs]	
Time Stamp Descri	bion	
The 50 most recent eve indicated by the disc in are logged to history or	ents are logged in the Event Log and system logging active is bottom right hand corner of the GUI. After 51 or more events they the Desktop	
<	III.	>

🤱 Log On

🔊 1

🔒 Desktop

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Engine Running

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FIRST FLOOR	▼	
SFDI 01	To view a particular group, either double click on the group within the groups pane or select tab "Group" and then select the group that you want to view from the drop down menu at top of pane. Select damper logs to view a fault	
Groups Group Damper Test	}	
Time Stamp Descrip	tion	
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AFEGARD ¥4 - USER OPERATING GUIDE					
FIRST FLOOR	~				
SEDICI SELECT Log On and default p Note: If a user is given acce airflow implications of closin Log Off If the user changes	assword is "000", ess to the system t g a damper, a gro the state of a dam	which can be hey must be a up or groups. per(s) they wi	changed, if red a competent pe When finished Il remain in tha	quired, see page 13 erson who understa d, the user must rem at state when they <u>L</u>	. Please nds the ember to og Off
	Password	_			
	0 1 2 3	0 1 2 3	0 1 2 3		
aroups Group Damper Test	-	0	K Cancel		
Event Log Damper Logs DIO Logs	<u>u</u>				
Time Stamp Description					
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		1111			
Engine Running	🔊 1	🙎 Log On		🔡 Desktop	

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~ 🚞 FIRST FLOOR **12** Open Ctrl+F1 _ SFDI 01 The user has chosen to close the first floor Ctrl+F2 ⊆lose damper. The damper icon indicates that it is <u>N</u>ormalise Ctrl+F4 now closed and the yellow warning triangle <u>F</u>ailsafe Ctrl+F5 indicates that it is not in its normal position. Toggle Online/Offline The total number of damper(s) that are not Shift+F1 Open Group normal is indicated in the taskbar. In this Shift+F2 Close Group case, there is only one damper. Shift+F3 Normalise Group Failsafe Group Shift+F4 Localise Group Groups Group Damper Test Event Log Damper Logs DIOLogs Time Stamp Description 8 20/06/2013 14:31:16 SFDI 01 Closed < > 1111 💷 1 🔛 1 💄 Log Off 🔒 Desktop 🚸 Engine Running

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C FIRST FLOOR		~								
SFDI 01	If wired radially and be indicated in the icon LED will chang If wired in a loop an system now sees t system until a seco If there is a loss of LED(s) will change If there is a loss of shutdown then a U screen at their con	If wired radially and the network cable is cut or power to the damper(s) is lost then "Missing" will be indicated in the event log and damper log, the damper(s) will attempt to failsafe and their icon LED will change to red at the group screen with a '?' shown on the damper icon. If wired in a loop and the network cable is broken the damper(s) still communicate because the system now sees two radial network cables. In this case there will be no indication on the system until a second break occurs. If there is a loss of power to the damper(s) they will also attempt to failsafe and their icon LED(s) will change to red at the group screen with a '?' shown on the damper icon. If there is a loss of power to the panel and it is reinstated before undergoing a full controlled shutdown then a UPS-CONF screen will appear. The user is required to simply close this screen at their convenience.								
Groups Group D)amper Test									
Event Log Dan										
			Fault Log	Aux Input Log						
Damper	Time Stamp	Group		Location	Description					
SFDI 01	20/06/2013 14:32:16	FIRST FLOOR		FIRST FLOOR RECEPTION	Missing					
< <u> </u>				Ш		الله الله الله الله الله الله الله الله				
Engine Running		@ 1	<u>1</u> 1	2 Log Off	🔒 Desktop					

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C FIRST FLOOR		
SFDI 01 The whi This one sho refe	e damper is now under the influence of an environmental input ch can be seen from the green square within the damper icon. s is typically used for occupancy. One IO event is now active, e input, which can be viewed in the DIO logs. In the input log it ws that input 1 is active, its description (alias) and cable tags erences. hilarly, by selecting the output log you can see when an out(s) is active, its description (alias) and cable tag references.	
Groups Group Damper Test		
Event Log Damper Logs DIO Logs		
	Fault Log 🔰 Output Log	
DIO Input	Time Stamp Class Thread Alias Ca	ible Tag
Engine Running	🧊 1 🔔 1 🔒 Log Off 🔤 1	Desktop





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C FIRST FLOOR	~			
SFDI 01				
	Should one of the of its end position and indicate a fee log and damper lo to red in the damp	e dampers fail to reach one as it will attempt to failsafe edback failure in the event og and its LED will change per icon.		
Groups Group Damper Test				
Event Log Damper Logs UDIO Logs				
	Faul	t Log 💶 Aux Input Log		
Damper Time Stamp	Group	Location	Description	
SFDI 01 20/06/2013 14:35:	56 FIRST FLOOR	FIRST FLOOR RECEPTION	Feedback Failure	
Engine Running	9 1	2 Log Off		sktop

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FIRST FLOOR	~			
SFDI 01 Channel: Channel 02 Location: FIRST FLOOR RECEPTION Type: Smoke-Fire Damper Make: ACTIONAIR Normal: Open Failsafe: Closed Mode: Auto Drive times: 90 s; 45 s	Select a damper to	view its details		
Groups Group Damper Test				
Event Log Damper Logs DIO Logs	<u></u>			
Damper Time Stamp	Fault L	og Aux Input Log	Description	
	Croop	Locator	Description	
The second secon	💷 i	2 Log Off		



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	5.01									
	Open	Ctrl+F1								
I	⊆lose	Ctrl+F2	_							
1	Balance	Ctrl+F3		Right click	on aroun	nane to oner				
	Normalise	Ctrl+F4		normalica	or faileafa		r, ciuse,			
	Eailsafe	Ctrl+F5		Hornalise	O[IallSale	a group. Alle	nalively			
4		3		use Smit	- $ -$	leys as show	11.			
4										
	Ogen Group	Shift I E2								
	Normalise Group	Shift+F3								
	Failsafe Group	Shift+F4								
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Groupe	Curue Demoer T	aat								
aloups	Group Damper I	est								
Event L	og Damper Log	s DIO Lo	gs							
					Fault Log	Aux Input Log				
Dampe	r	Time Stamp)	Group		Location		Description		
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Engine	e Running			💷 1		2 Log Off			🔒 Desktop	

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GROUND FLOOR
Image: Second
On the ground floor a mixture of various dampers can be seen:- 3 Position Damper Interface (3PSFDI) - Actuator can be set to a balanced position or driven open/closed and failsafes via spring-return, shown as 3PSFDI BAL 01. Alternatively, actuator can be modulated via 0 – 10V signal from the BAS or an air flow sensor and only instructed to failsafe by the system in the event of an environmental input, shown as 3PSFDI BAS 01.
Fire Damper Interface (FDI) - Monitors damper position. Damper failsafes closed via spring mechanism and must be manually reset.
Smoke Damper Interface (SDI) – Drive open, drive closed.
Smoke Fire Damper Interface (SFDI) - Energizes actuator to drive and failsafe via spring-return.
Groups Group Damper Test
Event Log Damper Logs DIO Logs
Time Stamp Description
🕸 Engine Running 😥 1 🙎 Log Off F Desktop

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FIRST FLOOR GROUND FLOOR	
Groups Group Damper Test	
Event Log Damper Logs DIO Logs	
Time Stamp Description	
In the bottom left of the screen we can see that the system has been programed to output all damper information to the BAS via a Serial RS-232 link. When the BAS is communicating the icon will turn green. Other protocol options are RS-485, BacNet and Modbus.	
	>
R5-232	
🕸 Engine Running 🕺 1 🙎 Log Off	





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GROUND FLOOR	
Image: A marked bit in the second	
When testing, each damper is fully cycled open/closed one after the other and which damper is under test is clearly identified; 3PSFDI BAL 01 in this case.	
Groups Group Damper Test	
Event Log Damper Logs DIOLogs	
Time Stamp Description	
🕸 Engine Running 🗭 1 🔬 1 🔒 Log On 📄 Desktop	







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File Edit View Favori	tes Tools Advanced Help		2
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Address 🙆 Scheduled Task	G		💌 🄁 Go
Other Places Control Panel My Documents Shared Documents My Network Places	Add Scheduled Task	Next Run Time Last Run Time Status Last	Result Creator
Scheduled Task Wizard	Enter the name and password of a user. The task will run as if it were started by that user. Enter the user name: 1ZPPMI3U2T\Administrator Enter the password: •••••• Confirm password: •••••• If a password is not entered, scheduled tasks might of run. ABAC Next> Cancel	Leave the "Enter the user name" as is and select the "Enter the password" box. Input the PC's administrator password: 'safegard' and confirm it, then click Next. Verify the choices you have made and click Finish. To change a "Scheduled Task" that you have already programmed, go to "Start", "Control Panel" and then "Scheduled Tasks". Select "TestAgent" and right click on it and select "Properties". Select "Schedule" tab, change as required and click OK. PLEASE NOTE: If a User or a Scheduled Task has initiated a Test and an environmental input that has been programmed to suspend or stop a test is activated it will override the test.	





