

ENGINEERING
TOMORROW

Danfoss

Service Guide

Setup for HGM Leak Detector with Alarm and Strobe AK-SM 800

ADAP-KOOL® Refrigeration Control System

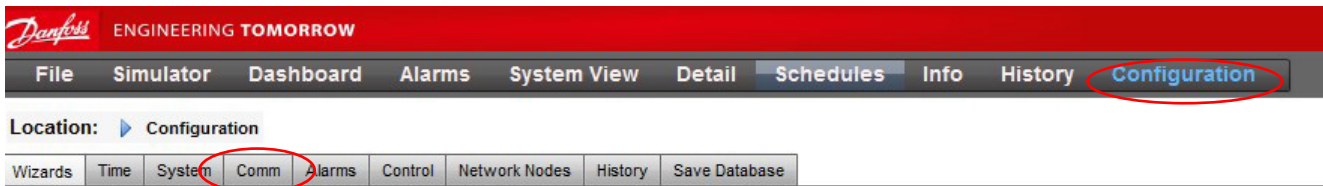


ЮГОВ - Проект
інженерно-виробниче підприємство

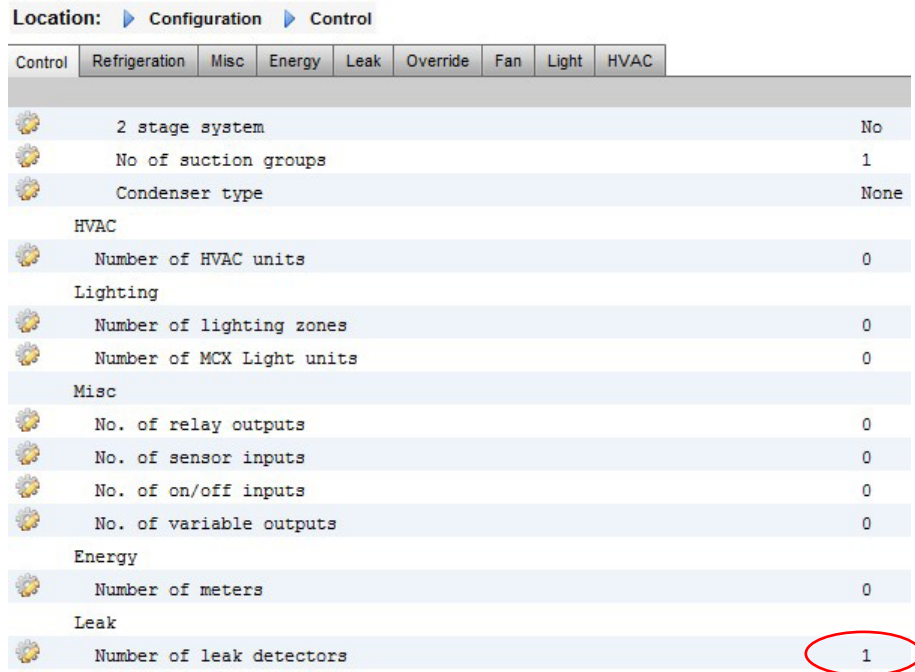
Офіційний дистриб'ютор
Danfoss в Україні



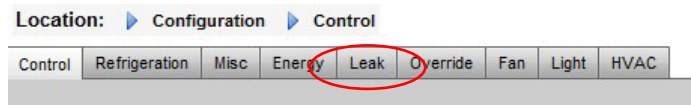
1. From the Configuration tab, select the Control subtab.



2. From the Control tab, set the number of leak detectors as the desired number between 1 and 50.



3. Navigate to the Leak tab.



4. Set the Leak Type to HGM as desired



5. Navigate to the Setup Tab

Location: Configuration Control Leak

Type	Setup	
	Leak 1	HGM
	Leak 2	Leak
	Leak 3	Leak

6. From the dropdown box, select the Leak Detector you wish to setup. Choose the Refrigerant, Full scale value, and enable each zone sensor that will be used.

Location: Configuration Control Leak

Type	Setup	Addresses	Alarms
Leak 1	Setup		
Name	Leak 1		
Refrigerant	R407A		
Full scale value	1000 ppm		
System error detection	No		
Leak 1:Zone 1	Leak 1:Zone 1		
Enable	Yes		
Leak 1:Zone 2	Leak 1:Zone 2		
Enable	Yes		
Leak 1:Zone 3	Leak 1:Zone 3		
Enable	Yes		
Leak 1:Zone 4	Leak 1:Zone 4		
Enable	Yes		
Leak 1:Zone 5	Leak 1:Zone 5		
Enable	Yes		
Leak 1:Zone 6	Leak 1:Zone 6		
Enable	No		
Leak 1:Zone 7	Leak 1:Zone 7		
Enable	No		
Leak 1:Zone 8	Leak 1:Zone 8		
Enable	No		

7. Navigate to the addresses tab.

Location: Configuration Control Leak

Type	Setup	Addresses	Alarms
Leak 1	Setup		

8. Go to the Sensors tab and address as desired.

Location: Configuration Control Leak Addresses

Controllers	Relays	Sensors	On/Off Inputs	Variable Outputs	VLT
Leak 1 Sensors					
	Sort by	Address			
	HGM 1 Zone	HGM 1 Zone			
	Address	02-1.1			
	Type	HGM CHAN			
	HGM 1 ppm	HGM 1 ppm			
	Address	02-1.2			
	Type	HGM LEAK			

9. Navigate back to the Configuration -> Control -> Leak -> Alarms tab to enable alarms for each zone sensor if desired.

Location: Configuration Control Leak

Type Setup Addresses Alarms

Leak 1 Alarms

HGM Zone Fail: Leak 1:Zone 1 02-1.2	Critical
Limit	500
Delay	15
Units	min
Action	1
HGM Zone Fail: Leak 1:Zone 2 02-1.2	Disabled
HGM Zone Fail: Leak 1:Zone 3 02-1.2	Disabled
HGM Zone Fail: Leak 1:Zone 4 02-1.2	Disabled
HGM Zone Fail: Leak 1:Zone 5 02-1.2	Disabled

10. Navigate to the Configuration -> Control -> Refrigeration -> Circuits -> Setup tab. Choose the leak detector you wish to associate from the "Monitor leak detector" box. Choose the desired zone. Enable "Generate horn relay" and "Generate strobe relay" to "Yes" as desired. PPM triggers are configured here as well.

Location: Configuration Control Refrigeration Circuits

Type Setup Alarms Copy

Circuit AA1 Setup

Temperature control	Solenoid
Controlling sensor	Min Temp
Target	35.0 °F
Range +/-	2.0 °F
Dual temp control	No
Type of defrost	None
Antisweat control	No
Generate shutdown input	No
Num of shutdn schedules	0
Monitor leak detector	Leak 1
Zone	3
Shutdown on leak	No
Generate horn relay	Yes
Cutin	3000 ppm
Cutout	2000 ppm
Generate strobe relay	Yes
Cutin	1000 ppm
Cutout	900 ppm

11. Navigate to the Configuration -> Control -> Refrigeration -> Addresses tab and go to the relay subtab to address the horn and strobe as desired.

Location: Configuration Control Refrigeration Addresses

Controllers Relays Sensors On/Off Inputs Variable Outputs VLT

Rack (A) Relays

Sort by	Address
Horn 1-1	Horn 1-1
Address	02-1.1
Type	N-Open
Strobe 1-1	Strobe 1-1
Address	02-1.2
Type	N-Open