

Version May 16, Rev. 2
Registers Ltd. - Modbus RTU (Default)
Slave 1-127, Time Out 100ms, Basud 9600, parity none, 8 bit, 1 stop bit
All Registers Space Indepen 15 bit (Holdrign Registers ACXXXX)
Commands: 0:003 = Read Holding Registers / 0:006 = Preset Sngle Register / 0:10 = Preset Multiple Registers. Modbus Register UFC24-2

1	702702 1-On . 0-Off	Software Version DI.1 - Manual Override-Physical Input	Damper 1	К	0-off	effective	indicates input of the DI1 (on/off) Manual Override	indicates input of the DI1 (on/off) Manual Override
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2	1-On , 0-Off 1-On , 0-Off	DI.2 - ManualOverride-Physical Input LED Close	Damper 2 Damper 1	R R	0-off	efffective	indicates input of the DI2 (on/off) Manual Override Indicates close position of the actuator 1	indicates input of the DI2 (on/off) Manual Override Indicates close position of the actuator 1
4 5	1-On , 0-Off	LED_Close	Damper 2	R R			Indicates close position of the actuator 2	Indicates close position of the actuator 2
6	1-On , 0-Off 1-On , 0-Off	LED Open LED Open	Damper 1 Damper 2	R			Indicates open position of the actuator 1 Indicates open position of the actuator 2	Indicates open position of the actuator 1 Indicates open positionof the actuator 2
7	1-On , 0-Off	Relay Damper	Damper 1	R/W	0-Off		If relay off - actuator 1 is moving to open position, if relay on - damper closing, if power off - damper closing (spring)	If relay on (power) the damper 1 is moving over the en switch and goes back to close position. Once UFC24 go control signal - this is stored and the smoke damper aff power loss will always move to the position of the last
8	1-On , 0-Off	Relay Damper	Damper 2	R/W	0-Off		If relay off - actuator 2 is moving to open position, if relay on - damper closing, if power off - damper closing	command as soon as power is back If relay on (power) the damper 1 is moving over the en switch and goes back to close position. Once UFC24 go control signal - this is stored and the smoke damper af
9	1-On , 0-Off	DI_ManualOverride_Normally Close/Open	Damper 1	R/W	0-N.Open		(spring) If the manual override 1 is activated the a relay is switched off, the power is interrupted and the damper:	power loss will always move to the position of the last command as soon as power is back If the manual override 1 is activated the signal for the damper actuator is changed and the damper actuator
							is closing If the manual override 2 is activated the a relay is	moving to the opposite position If the manual override 2 is activated the signal for the
10	1-On , 0-Off	DI_ManualOverride_Normally Close/Open	Damper 2	R/W	0-N.Open		switched off, the power is interrupted and the damper is closing	damper actuator is changed and the damper actuator moving to the opposite position
11	1-On , 0-Off	Dip Switch Selection – Fire Application	Damper 1	R		Selection functionality on Conf dip switch bar		
12	1-On , 0-Off	Dip Switch Selection – Fire Application	Damper 2	R		Selection functionality on Conf dip switch bar		
13	1-On , 0-Off	Dip Switch Selection – Smoke Application	Damper 1	R		Selection functionality on Conf dip switch bar		
14	1-On , 0-Off	Dip Switch Selection – Smoke Application	Damper 2	R		Selection functionality on Conf dip switch bar		
15 16	1-On , 0-Off 1-On , 0-Off	Manual Override_Effective Manual Override Effective	Damper 1 Damper 2	R R		Shows the real position Shows the real position		
17	1-On , 0-Off	Damper Moving	Damper 1	R		Actuator 1 is between the two end switches		
18	1-On , 0-Off	Damper Moving	Damper 2	R		Actuator 2 is between the two end switches		
19	1-On , 0-Off	Test Button	Damper 1	R		Test button on the UFC24- 2 for on site testing	- Power on the UFC24-2: actuator (damper) opening until end position is reached - Pushing test button will interrupt the power supply (UFC24-2 relay 1) to the actuator 1. Spring is closing the actuator - As soon as test button is released the power comes back and the damper will open again	- Pushing test button 1: the smoke damper 1 is moving opposite direction - release the test button 1: the smoke damper 1 is moback into original position
20	1-On , 0-Off	Test Button	Damper 2	R		Test button on the UFC24- 2 for on site testing	Power on the UFC24-2 actuator (damper) opening until end position is reached Pushing test button will interrupt the power supply (UFC24-2 relay 2) to the actuator 2. Spring is closing the actuator - As soon as test button is released the power comes back and the damper will open again	-Pushing test button 2: the smoke damper 1 is moving opposite direction -release the test button 2: the smoke damper 1 is moback into original position
21	1-On , 0-Off	Damper Close	Damper 1	R		Feedback damper position, indicated by the end switches of the actuator 1		
22	1-On , 0-Off	Damper Open	Damper 1	R		Feedback damper position, indicated by the end switches of the actuator 1		
23	1-On , 0-Off	Dampers Close	Damper 2	R		Feedback damper position, indicated by the end switches of the actuator 2		
24	1-On , 0-Off	Damper Open	Damper 2	R		Feedback damper position, indicated by the end switches of the actuator 2		
25	1-On , 0-Off	FullAutoTest	Damper 1	R/W	0-Normal	Activation of a full automatic test run of the actuator	The fire damper actuator 1 is closing (spring) and remains in the closed position as long as the damper check time is set. After the time passed the actuator will open again until the end switch has been reached. If one of the end switches is not reached within the damper check time (register 34) - an error message is sent.	The fire damper actuator 1 is moving to the opposite direction and remains in that position at long as the direction. All remains in that position at long as the direction and remains in that position as long as the direction after 90 seconds). After the time passed the actuator move back to the original position until the end switches been reached (90 seconds for the 2nd move again). If the end switches is not reached within the damper term (register 35) in a test move - an error message is sent.
26	1-On , 0-Off	FullAutoTest	Damper 2	R/W	0-Normal	Activation of a full automatic test run of the actuator	The fire damper actuator 2 is closing (spring) and remains in the closed position as long as the damper check time is set. After the time passed the actuator will open again until the end switch has been reached. If one of the end switches is not reached within the damper check time (register 35) - an error message is sent.	The fire damper actuator 2 is moving to the opposite direction and remains in that position as long as the d check time is set (i.e. 90 sec - the process has to be fire after 90 seconds). After the time passed the actuator move back to the original position until the end switch been reached (50 seconds for the 2nd move again). If the end switches is not reached within the damper tee (register 55) in a test move - a more message is sent or message
27	1-On , 0-Off	SetFactoryDefault		R/W		If activated all settings going back to factory default values		
28	1-On , 0-Off	Clear Message	Both	R/W		Reset messages indicated		
29 30	0180 Sec	DI_ManualOverride_OnDelay	Damper 1	R/W R/W	0-Sec 0-Sec	Delay functionality Delay functionality	Choosable between 0-180"	Choosable between 0-180"
31	0180 Sec	DI_ManualOverride_OnDelay	Damper 2		0.360	Delay functionality	Choosable between 0-180"	Choosable between 0-180"
32	0180 Sec 960-1920-3840-7680 0-50-100 %	DI_ManualOverride_OnDelay BaudRate DamperPosition	Damper 1	R R	0.3ec	Indicates damper position	Choosable between 0-180° 0%= damper actuator 1 end switch closed is active; 50% = no damper actuator switch is activated; actuator is moving or stands between the end switches; 100% damper actuator end switch open is active	0%= damper actuator 1 end switch closed is active; 50 damper actuator switch is activated; actuator is movin
32	960-1920-3840-7680	BaudRate		R	0.360		0%= damper actuator 1 end switch closed is active; 50% = no damper actuator switch is activated; actuator is moving or stands between the end switches; 100%	ON= damper actuator 1 end switch closed is active; 55 cd damper actuator switch is activated; actuator is movin stands between the end switches; 100% damper actuator end switch open is active ON= damper actuator 2 end switch closed is active; 55 cd damper actuator switch is activated; actuator is movin
	960-1920-3840-7680 0-50-100 %	BaudRate DamperPosition	Damper 1	R R	90-Sec	Indicates damper position	ON=damper actuator 1 end switch closed is active; 50% = no damper actuator switch is activated; actuator is moving or stands between the end switches; 100% damper actuator end switch open is active ON=damper actuator end switch 2 closed is active; 50% = no damper actuator switch is activated; actuator is moving or stands between the end switches; 100%	OS- damper actuator 1 end switch closed is active; 50 damper actuator switch is activated, actuator is moving stands between the end switches; 100% damper actuator switch desired switch queen is active. OS- damper actuator 2 end switch closed is active; 50% damper actuator is moving stands between the end switche; 100% damper actuator active
33	960-1920-3840-7680 0-50-100 % 0-50-100 %	BaudRate DamperPosition DamperPosition	Damper 1 Damper 2	R R		Indicates damper position Indicates damper position Time to control running time of the actuator between the end switches,	ONs-damper actuator 1 end switch clemed is active, 50% in a damper actuator a with its activated; actuator is moving or stands between the end switches; 50% damper actuator end switch open is active. ONs-damper actuator end switch open is active. ONs-damper actuator end switch 2 closed is active; 50% in ordinary actuator is witch a activated; actuator is moving or stands between the end switche; 100% damper actuator of switch open is active. Command by the controls that the actuator I has to close/open. If the actuator does not reach the other end switch within the dedicated time an error message sext. Automatic valuating the	OS: damper actuator 1 end switch closed is active; 50 clamper actuator switch is activated; actuator is movin change factuator is movin change factuator is movin change factuator is movin end switch open is active. OS: damper actuator a movin changer actuator switch is activated, schalar active; 50 clamper actuator switch is activated; actuator is movin changer actuator switch is activated; actuator is movin end which open is active. Of the changer actuator districts, actuator does not reach the other switch within the dedicated time an error message is active. Automatic not interest done by activiting the automited in the change actuator does not reach the other experience of the change actuator does not receive the change actuator does not receive the change actuator does not receive the other changes of the change actuator does not reach the other actuator does not reach the other excitor. Which will be actuated the son of reach the other excitors which the actuator does not reach the other excitors which will be the decidated time an error message is:
33	950-1920-3840-7680 0-50-100 % 0-50-100 % 0-360-5ec	BaudRate DamperPosition DamperPosition DamperPosition	Damper 1 Damper 2 Damper 1	R R R	90-Sec	Indicates damper position Indicates damper position Indicates damper position If the control running time of the actuator between the end switches, can be adapted. If the source of the actuator between the end switches, can be adapted. Error messages 1.8 indicate the system messages to the the error LED.	Offici damper actuator 1 end switch closed is active; 50% in or damper actuator 1 with closed is active; 50% in or damper actuator switch is activated; actuator is moving or stands between the end switch open is active damper actuator end switch open is active of the control	Oils' damper actuator 1 end switch closed is active; 55 damper actuator switch is active; 55 damper actuator is witch a schooled; actuator is amount actuator is amounted as active; 50 damper actuator active; 100% damper actuator active; 50 damper actuator active; 50 damper actuator active; 50 damper actuator active; 50 damper actuator is mover stands between the end switch perior is active. 50 damper actuator with a wind switch open is active. 50 damper actuator damper actuator with a wind switch open; of the actuator does not reach the other and switch open; if the actuator does not reach the other actuator with a decidented time are rorn ressage is active turn under the actuator decidented time are rorn ressage is actuator under under under under under the actuator decidented time actuator damper actuator under und
33 34 35 36	0-50-100 % 0-50-100 % 0-50-100 % 0-50-100 % 0-360-5ec 18	BaudRate DamperPosition DamperPosition DamperCheckTime DamperCheckTime System Status System Status	Damper 1 Damper 2 Damper 1 Damper 2 Damper 2	R R R R/W R/W	90-Sec	Indicates damper position Indicates damper position Time to control running time of the actuator between the end switches, can be adapted. Time to control running time of the actuator between the end switches, can be adapted. Firor message 1.8 indicate the system message and activate the error EED. Error messages 1.8 indicate the system message and activate the error EED.	Offici damper actuator 1 end switch closed is active; 50% in or damper actuator 1 with closed is active; 50% in or damper actuator switch is activated; actuator is moving or stands between the end switch open is active damper actuator end switch open is active of the control	Oils' damper actuator 1 end switch dosed is active-50 damper actuator switch a cavulet, actuator is writed a cavulet actuator is writed and switch open is active. Oils' damper actuator actuator is actived actuator is actived actuator is actived actuator is actuator is actuator is actuator is actuator is actuator is actuator in actuator is actuator in actuato
33 34 35 36 37 38 39	0-50-100 % 0-50-100 % 0-50-100 % 0-50-100 % 0-360-5ec 18 18 01024 01024	BaudRate DamperPosition DamperPosition DamperCheckTime DamperCheckTime System Status InternalStrammeters, InternalStrammeters	Damper 1 Damper 2 Damper 1 Damper 1	R R R R/W R/W R	90-Sec	Indicates damper position Indicates damper position Time to control running time of the actustor between the end system, can be adapted. Time to control running time of the actustor between the end switches, can be adapted. Error messages 1-8 indicate the system error LED. Error message 1-8 indicate the system error LED.	Offici damper actuator 1 end switch closed is active; 50% in or damper actuator 1 with closed is active; 50% in or damper actuator switch is activated; actuator is moving or stands between the end switch open is active damper actuator end switch open is active of the control	Oils' damper actuator 1 end switch dosed is active-50 damper actuator switch a cavulet, actuator is writed a cavulet actuator is writed and switch open is active. Oils' damper actuator actuator is actived actuator is actived actuator is actived actuator is actuator is actuator is actuator is actuator is actuator is actuator in actuator is actuator in actuato
33 34 35 36 37	0-50-100 % 0-50-100 % 0-50-100 % 0-360-5ec 18 18	BaudRate DamperPosition DamperPosition DamperCheckTime DamperCheckTime System Status System Status	Damper 1 Damper 2 Damper 1 Damper 2 Damper 1 Damper 2	R R R R/W R/W R	90-Sec	Indicates damper position Indicates damper position Time to control running time of the actualization Time to control running Time to c	OS- damper actuator 1 end switch closed is active; 50% in a damper actuator a with a skrivated, actuator is enough go stands between the end switches; 50% damper actuator end switch open is active. 50% actuator exclusion end switch 2 closed is active; 50% in demper actuator end switch 1 actuator exclusion end switch 2 closed is active; 50% active 30% actuator exclusion end switch 1 actuator exclusion exclusion end switch open is active. 20% damper actuator end switch open is active. 20% actuator end switch open is active. 20% actuator end switch open is active end switch within the decid acted time an error message settle, actuator actuator does not reach the other end switch within the decid acted time an error message is set. Automatic text non-see detailed description of reg. 25. Command by the controls that the actuator 2 has to close/open. If the actuator does not reach the other end switch within the decid acted time an error message is seen. Automatic run time test done by activating the automatic text run - see detailed description of reg. 26.	Oils' damper actuator 1 end switch dosed is active-50 damper actuator switch a cavulet, actuator is writed a cavulet actuator is writed and switch open is active. Oils' damper actuator actuator is actived actuator is actived actuator is actived actuator is actuator is actuator is actuator is actuator is actuator is actuator in actuator is actuator in actuato
33 34 35 36 37 38 39	0-50-100 % 0-50-100 % 0-50-100 % 0-50-100 % 0-360-5ec 18 18 01024 01024	BaudRate DamperPosition DamperPosition DamperCheckTime DamperCheckTime System Status InternalStrammeters, InternalStrammeters	Damper 1 Damper 2 Damper 1 Damper 2 Damper 1 Damper 2	R R R R/W R/W R	90-Sec	Indicates damper position Indicates damper position Time to control running time of the actualization Time to control running Time to c	OS-of damper actuator 1 end switch closed is active, 50% in a damper actuator a with a scrivated, actuator is enough or stands between the end switches, 50% damper actuator end switch open is active. OS-of damper actuator end switch open is active. Soft-of-order actuator end switch open is active. 250% a compared actuator end switch is activated, actuator is end compared actuator end switch is activated, actuator is endougher actuator end switch is activated, actuator is endougher actuator end switch open is active. 250% damper actuator end switch open is end switch open in active actuator is endougher actuator end switch open. Soft endougher actuator end switch open is endougher actuator does not reach the other end switch within the decidated time an error message sum. Automatic test run - see detailed description of reg. 25. Command by the controls that the actuator 2 has to color/open. If the actuator does not reach the other actuator down that with the decidated time and error message is sent. Automatic run time test done by activating the automatic test run - see detailed description of reg. 26. If reg. 41 activated the damper will move into dose position after the time dicidated (see) are ring 41 and remain there until the bus communication comes back	Oils' damper actuator 1 end switch dosed is active-50 damper actuator switch a cavulet, actuator is writed a cavulet actuator is writed and switch open is active. Oils' damper actuator actuator is actived actuator is actived actuator is actived actuator is actuator is actuator is actuator is actuator is actuator is actuator in actuator is actuator in actuato
33 34 35 36 37 38 39 40	0-50-100 % 0-50-100 % 0-50-100 % 0-50-100 % 0-360-5ec 18 18 01024 01024 800xxx	BaudRate DamperPosition DamperPosition DamperCheckTime DamperCheckTime System Status System Status InternalParameters InternalParameters Device Instants Not in Use In Modbus	Damper 1 Damper 2 Damper 1 Damper 2 Damper 1 Damper 2	R R R R R/W R/W R	90-Sec 90-Sec	Indicates damper position Indicates damper position Time to control running time of the actuator between the end switches, can be adapted. Time to control running time of the actuator between the end switches, can be adapted. Error message 1.8 indicate the system message and activate the error LED. Error messages 1.8 indicate the system message and activate the error LED. Meternal Use Only Internal Use Only	OS- damper actuator 1 end switch closed is active, 10% in a damper actuator a with a skrivated, actuator is enough or same between the end switches; 10% damper actuator end switch open is active. OS-s damper actuator end switch 2 closed is active; 20% a consideration of the same actuator end switch 2 closed is active; 20% in a consideration of the same actuator end switch is activated, actuator is endough a cuttator switch in activated actuator in monoing or samble between the end switcher; 1006 damper actuator or end switch open a switch company actuator design of reach the other end switch within the decid acted time an error message sent. Automatro in time test done by activating the automatic test run - see detailed description of reg 25. Command by the controls that the actuator 2 has to close/open. If the actuator does not reach the other end switch within the decid acted time and error message is sent. Automatic run time test done by activating the automatic test run - see detailed description of reg 26. If reg 41 activated the damper will move into close poposition after the time indicated (sec) at reg 41 and	One damper actuator 1 end switch closed is active; 50 damper actuator switch is actived; 50 damper actuator switch is actuated; 50 damper actuator is moving a switch as actuated in the switch of the
34 34 35 36 37 38 39 40	0-50-100 % 0-50-100 % 0-50-100 % 0-360 Sec 18 18 01024 01024 01034 0360	BaudRate DamperPosition DamperPosition DamperCheckTime DamperCheckTime DamperCheckTime System Status System Status InternalParameters. InternalParameters Device Instant: Not in Use in Medibus Delay Alarm Communication Logic Alarm Communication 1. Normal 2. Actuator Not Reached End Position 3. Not in Use	Damper 1 Damper 2 Damper 1 Damper 2 Damper 1 Damper 2	R R R R R/W R/W R R/W R R R R	90-Sec 90-Sec 120-Sec	Indicates damper position Indicates damper position Time to control running time of the actuator between the end switches, can be adapted. Time to control running time of the actuator between the end switches, can be adapted. Firor message 1.8 indicate the system message and activate the error LED. Error message 1.8 indicate the system message and activate the error LED. Internal Use Only Internal Use Only Bus Monitoring Delay Bus Monitoring Delay 2. Actuator Not accepted the Position 2. Actuator Not accepted the Position 3. No Turciscolity	OS- damper actuator 1 end switch closed is active, 50% in a damper actuator a with a skrivated, actuator is moving or stands between the end switches; 50% damper actuator end switch open is active. 50% a consideration of the switch open is active. 50% in a consideration of the switch open is active. 50% a consideration of the switch open is active. 50% damper actuator end switch open is active. 50% damper actuator end switch open is active. 50% and open of the switch open is active. 50% and open of the switch open is active. 50% and open of the switch open is active. 50% and 50% open of the switch open is active. 50% as a switch open is active of the switch open is active. 50% open. 50%	OS: damper actuator 1 end switch closed is active; 50 clamper actuator switch is actived; actuator is moving a city and a consistency of the consi
34 34 35 36 37 38 39 40	0-50-100 % 0-50-100 % 0-50-100 % 0-360-5ec 18 18 18 01024 01024 01024 01024	BaudRate DamperPosition DamperCheckTime DamperCheckTime DamperCheckTime DamperCheckTime System Status InternalParameters InternalParameters Device Instant: Not in Use in Modbus Delay Alarm Communication Logic Alarm Communication Logic Alarm Communication 1. Normal 2. Actuator Not Reached End Position 3. Not in Use 4. Not in Use 4. Not in Use 5. Any Other Error	Damper 1 Damper 2 Damper 1 Damper 2 Damper 1 Damper 2	R R R R R/W R/W R R/W R R R R	90-Sec 90-Sec 120-Sec	Indicates damper position Indicates damper position Indicates damper position Time to control running time of the actuator between the end switches, can be adapted. Time to control running time of the actuator between the end switches, can be adapted. Error messages 1-8 indicate the adapted. Error messages 1-8 indicate the system message and activate the error LED. Error messages 1-8 indicate the system message and activate the error LED. Interenal Use Only internal U	Offici damper actuator 1 end switch closed is active; 50% = no damper actuator 3 witch is activated; actuator is wroning or stands between the end switch open is active damper actuator end switch open is active damper actuator end switch open is active of 10% damper actuator end switch open is active of 10% damper actuator switch is activated; actuator is moving or stands between the end switches; 500% damper actuator switch is activated; actuator is considered actuator of 10% damper actuator or disvitic open is active of 10% damper actuator or disvitic open is active of 10% damper actuator or disvitic open is active of 10% damper actuator or disvitic open is active of 10% damper actuator or disvitic open is active of 10% damper actuator or disvitic or 10% damper actuator or 10% damper actuato	Oss-damper actuator 1 end switch dosed is active; 50 damper actuator switch is active; 50 damper actuator switch is actuated; actuator is more actuator switch is actuated; actuator is more actuator is more actuator in actuator in actuator in actuator is active. 50 damper actuator switch open is active. 50 damper actuator open damper actuator doses on the actuator has to disocipopen. 11 the actuator doses not reach the other e switch within the decidated time a reror message is active. 50 damper actuator has to disocipopen. If the actuator doses not reach the other e world within the decidated time are ror message is actuator which the decidated time are ror message is actuator which the decidated time are ror message is actuator which the decidated time are ror message is actuator which actuator damper decidated time actuator damper decidated time actuator has not reach the other of the actuator damper decidated time actuator damper decidated time actuator has not reach the other of the actuator damper decidated time actuator damper decidated time actuator damper damper decidated time actuator damper damper decidated time actuator damper d
34 34 35 36 37 38 39 40	0-50-100 % 0-50-100 % 0-50-100 % 0-360-5ec 18 18 18 01024 01024 01024 01024	BaudRate DamperPosition DamperPosition DamperCheckTime DamperCheckTime DamperCheckTime System Status System Status System Status Device industry in the in Modeus Device industry in the information Logic Alarm Communication 1. Normal 2. Actuator Not Reached End Position 3. Not in Use 3. Not in Use	Damper 1 Damper 2 Damper 1 Damper 2 Damper 1 Damper 2	R R R R R/W R/W R R/W R R R R	90-Sec 90-Sec 120-Sec	Indicates damper position Indicate the sectuator between the end switches, can be adapted. Time to control running time of the actuator between the end switches, can be adapted. Error messages 1.8 Indicate the system message and activate the error LED. Indicat	Offici damper actuator 1 end switch closed is active; 50% = no damper actuator 3 witch is activated; actuator is wroning or stands between the end switch open is active damper actuator end switch open is active damper actuator end switch open is active of 10% damper actuator end switch open is active of 10% damper actuator switch is activated; actuator is moving or stands between the end switches; 500% damper actuator switch is activated; actuator is considered actuator of 10% damper actuator or disvitic open is active of 10% damper actuator or disvitic open is active of 10% damper actuator or disvitic open is active of 10% damper actuator or disvitic open is active of 10% damper actuator or disvitic open is active of 10% damper actuator or disvitic or 10% damper actuator or 10% damper actuato	Osi- damper actuator 1 end switch closed is active; 50 damper actuator switch is actived; 50 damper actuator switch is actuated; actuator is moving a suit of the control o

Version May 16 Subject to Changes