Object List BACnet MS/TP – Universal Field Controller FSC-UFC24

Version: Application Software Version 06.09.2017

Object	Value	Description	R/W	Default	Remarks	Function Fire Damper in the UFC24 Software	Function Smoke Damper in the UFC24 Software
Binary Input # 0	1-On, 0-Off	DI1_ManualOverride-Physical Input	R		read only	If the manual override is activated the relay is switched off, the power is interrupted and the damper is closing	If the manual override is activated the signal for the damper actuator is changed and the damper actuator is moving to the opposite position
Binary Input # 1	1-On, 0-Off	DI2_SmokeDetector-Physical Input	R		read only	The smoke detector indicates alarm	The smoke detector indicates alarm
Binary Input # 2	1-On, 0-Off	DI3_ThermoElectric-Physical Input	R		read only	The thermoelectric tripping device is activated - relay is switched off - the fire damper is closing	No functionality for the smoke damper, only message to the controller
Analog Output # 0	0-100 %	Status Controller	R		Always available, even operated on a bus system		
Binary Output # 0	1-On, 0-Off	LED_Close	R		Indication LED		
Binary Output # 1	1-On, 0-Off	LED_Open	R		Indication LED		
Binary Output # 2	1-On, 0-Off	LED_Status	R		Indication LED		
Binary Output # 3	1-On, 0-Off	LED_Error	R		Indication LED		
Binary Output # 4	1-On, 0-Off	Relay Damper	R/W	0-Off	Relay in the UFC indicating power	If relay off - actuator is moving to open position, if relay on - damper closing, if power off - damper closing (spring)	If relay on (power) the damper is moving over the end switch and goes back to close position. Once UFC24 got a control signal - this is stored and the smoke damper, after power loss, will always move to the position of the last command, as soon as the power is back.
Analog Value # 0	0....180 Sec	DI1_ManualOverride_OnDelay	R/W	0	Delay functionality		
Analog Value # 1	0....180 Sec	DI2_SmokeDetector_OnDelay	R/W	0			
Analog Value # 2	0....180 Sec	DI3_ThermoElectric_OnDelay	R/W	0			
Analog Value # 3	960-1920-3840-7680	BaudRate	R		Auto detect		
Analog Value # 4	0-50-100 %	DamperPosition	R		Indicates damper position	0% = damper actuator 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 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
Analog Value # 5	0...360 Sec	DamperCheckTime	R/W	90-Sec	Time to control running time of the actuator between the end switches, can be adapted.	Command by the controls that the actuator has to close/open. If the actuator does not reach the other end switch within the dedicated time an error message is sent. Automatic run time test done by activating the automatic test run - see detailed description of BV# 15.	Command by the controls that the actuator has to close/open. If the actuator does not reach the other end switch within the dedicated time an error message is sent. Automatic run time test done by activating the automatic test run - see detailed description of BV# 15.
Analog Value # 6	1.....8	System Status	R				
Analog Value # 7	0...1024	InternalParameters	R				
Analog Value # 8	804XXX	Device Instant	R/W				
Analog Value # 9	0...360	Delay Alarm Communication	R/W	120-Sec	Bus monitoring delay	If AV# 10 is activated, the damper will move into close position after the time indicated (sec) at AV# 9 and remain there until the bus communication comes back	No functionality for the smoke damper
Analog Value # 10	0..1	Logic Alarm Communication	R/W	0-Disable	Bus monitoring on / off	If AV# 10 activated (1) the damper will move into close position after the time indicated (sec) at AV# 9 and remains there until the bus communication comes back. If not activated the damper remains in open position until triggered from any other source (thermoel. tripping device, smoke detector, digital input).	No functionality for the smoke damper
Binary Value # 0	1-On, 0-Off	DI1_ManualOverride_Normally Close/Open	R/W	0-N.Open	digitally open/close damper	If the manual override is activated the relay is switched off, the power is interrupted and the damper is closing	If the manual override is activated the signal for the damper actuator is changed and the damper actuator is moving to the opposite position. In case of power loss the last command is stored. As soon as the power is back the actuator will continue to move to the position of the last command
Binary Value # 1	1-On, 0-Off	DI2_SmokeDetector_Normally Close/Open	R/W	1-N.Close	Position can be changed by software. UFC24 will be delivered with a jumper (bridge) as plug and play solution	The smoke detector indicates alarm - the signal is sent to the controller. With dip switch no. 7 one can choose whether the signal is only sent to the controller (as UFC24) and the set up in the controller will start any activities (dip switch off) or whether the actuator connected to the UFC24 will close immediately (dip switch on).	The smoke detector indicates alarm to the controller. For smoke detection always the controller has to give the command. Dip switch no. 7 does not have any functionality for smoke extraction.
Binary Value # 2	1-On, 0-Off	DI3_ThermoElectric_Normally Close/Open	R/W	1-N.Close	Position can be changed by software. UFC24 will be delivered with a jumper (bridge) as plug and play solution	The thermoelectric tripping device is activated - relay is switched off - the fire damper is closing	No functionality for the smoke damper, only message to the controller
Binary Value # 3	1-On, 0-Off	Dip Switch Selection – Fire Application	R		Selection functionality on Conf dip switch bar		
Binary Value # 4	1-On, 0-Off	Dip Switch Selection – Smoke Application	R		Selection functionality on Conf dip switch bar		
Binary Value # 5	1-On, 0-Off	Dip Switch Selection – Bus Application	R		Selection functionality on Conf dip switch bar		
Binary Value # 6	1-On, 0-Off	Dip Switch Selection - Analogue Application	R		Selection functionality on Conf dip switch bar		
Binary Value # 7	1-On, 0-Off	ManualOverride_Effective	R		Shows the real position		
Binary Value # 8	1-On, 0-Off	SmokeDetector_Effective	R		Shows the real position		
Binary Value # 9	1-On, 0-Off	ThermoElectric_Effective	R		Shows the real position		
Binary Value # 10	1-On, 0-Off	DamperMoving	R		Damper is between the two end switches		
Binary Value # 11	1-On, 0-Off	TestButton	R		Test button on the UFC24 for on-site testing	- Power on the UFC24: actuator (damper) opening until end position is reached - Pushing test button will interrupt the power supply (UFC24 relay) to the actuator. 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: the smoke damper is moving in the opposite direction - release the test button: the smoke damper is moving back into original position
Binary Value # 12	1-On, 0-Off	Damper Close	R		Feedback damper position, indicated by the end switches of the actuator		
Binary Value # 13	1-On, 0-Off	Damper Open	R		Feedback damper position, indicated by the end switches of the actuator		
Binary Value # 14	1-On, 0-Off	Dip Switch - SelectTwoOneInputPosition	R		Dip switch for one actuator, end switch functionality is activated		
Binary Value # 15	1-On, 0-Off	FullAutoTest	R/W	0-Off	Activation of a full automatic test run of the actuator	The fire damper actuator 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 test time (AV# 5) - an error message is sent.	The smoke extraction actuator is moving to the opposite direction and remains in that position as long as the damper check time is set (i.e. 90 sec = the process has to be finished after 90 seconds). After the time passed the actuator will move back to the original position until the end switch has been reached (90 seconds for the 2nd move again). If one of the end switches is not reached within the damper test time (AV# 5) in a test move - an error message is sent.
Binary Value # 16	1-On, 0-Off	Dip Switch Smoke Alarm Enable	R		Dip Switch no 7 - functionality see BV# 17	The smoke detector indicates alarm - the signal is sent to the controller. With dip switch no. 7 one can choose whether the signal is only sent to the controller and the set up in the controller will start any activities (dip switch off) or whether the actuator connected to the UFC24 will close immediately (dip switch on).	The smoke detector indicates alarm to the controller. For smoke detection always the controller has to give the command. Dip switch no. 7 does not have any functionality for smoke extraction.
Binary Value # 17	1-On, 0-Off	Smoke Alarm Enable	R/W	0-Off	Set same functionality as dip swith no. 7 by software	The smoke detector indicates alarm - the signal is sent to the controller. With dip switch no. 7 one can choose whether the signal is only sent to the controller and the set up in the controller will start any activities (dip switch off) or whether the actuator connected to the UFC24 will close immediately (dip switch on).	The smoke detector indicates alarm to the controller. For smoke detection always the controller has to give the command. Dip switch no. 7 does not have any functionality for smoke extraction.
Binary Value # 18	1-On, 0-Off	Smoke Alarm Enable Effective	R		Shows the real position of dip switch No. 7		
Binary Value # 19	1-On, 0-Off	SetFactoryDefault	R/W	0	If activated all settings are going back to factory default values		
Binary Value # 20	1-On, 0-Off	Clear Message	R/W	0	Reset messages indicated		
Multistate Value # 0	9600-19200-38400-76800	BaudRate	R				
Multistate Value # 1	1. Normal	Status Controller	R			Indicates normal position. It is not an error message but belongs as normal or standard value into this list	
	2. Actuator Not Reach End Position		R			Indicates that the actuator has not reached the end position, the upper end switch of the actuator is not activated	
	3. Smoke Detector On		R			Smoke detector input has been triggered, alarm message sent to the building automation system, if dip switch 7 is activated the damper is closing	
	4. Tripping On		R			Thermo el tripping device has been triggered, damper closed	
	5. Any Other Error		R				
	6. Test In Progress		R				
	7. Test Report Normal		R				
	8. Test Report Error		R				