Filtering function in MBUS01IP.431

This filter is mainly used to filter the specified opcode and prevent other devices on the network from controlling the devices under the current gateway.

Option	Fast search	Data bac	kup Data restor	e Advanced search	Target -	Function -	Languag		n Too		ock Help	•
vice list tatus	Subnet ID	De	vice ID M	odel	Name		D	escription(double cli	ck this	Version		Hardware version
~	2 100			DL-MD512-DMX.232(SB-	10000000			12 channels show con		Unread		N/A
×	5 0		н	DL-MBUS01IP.431			IP	Gateway-MQTT		Unread		N/A
1	5 2		н	DL-MAC01.431	HVAC	HVAC			Air-conditioning controller			N/A
1	5 3		н	HDL-MCLog.431					Logic timer L			N/A
~	5 4		HC	DL-MR0416.431	0410	0410			4 channels 16A relay IV Unread			N/A
***	S-0\ Basic Set	Enable	15>485 Source address	Source subnet ID	Source device ID	Command	Comma	Destination	Destinati	ion subnet	Destination device	
1	index					Command		address	ID		ID	
1	1			252	252		0031		5		4	
1	2			255	255		FFFF		255		255	
1	3			255	255		FFFF		255		255	
ý	4			255	255		FFFF		255		255	
1	5			255	255		FFFF		255		255	
1	6			255	255		FFFF		255		255	
•	7			255	255		FFFF		255		255	
				255	255	-	rere		arr		355	

Source subnet ID and device ID is the device on the network. Destination subnet ID and device ID is the device under the IP gateway. In above picture, 252-252 is HDL ON. 5-4 is relay module. 0031 is the operation code of turning on/off the light.

When you turn on/off the light from HDL ON, if HDLON can't receive the response from relay module, it will re send 3 times.

Device			Basic setting	35											
Subnet ID:	5	(0x05)	Command(H	Hex):	Custom			0032							
Device ID:	4	(0x04)	Source add	ress:	Defau	ult 🔿 Cu	stom	Broadcast o	computer time		Serial port		~	Find se	erial port
			Subnet ID:		0 ‡	Device ID:	0	Device type:	0 ‡	USB	Baud rate:	9600	4	Data bit:	8 ~
			IP:	i i	1.10	3 10 255		Port:	6000		Stop bit:	1	~	Parity bit:	None 🔍
On Top			17.1	l				POIL;	0000					Open s	ierial port
Append data	a														
10	O Hex () ASCII													
	O Big		-												
Small	0 - 6		-												
Small	0 - 6														
Small	0 - 6														
Small	0 - 6		Interval:	3000	()	VIs)	Start								Sen
-	0		Interval:	3000	()	VIs)	Start]							Sen
eceive log		(Interval:			Ms)		O Device + con	nmand	Stop				Export li	
teceive log O No addr	resses limit) The object co	ommano	d (The object 	device			• 1	rol Chn nc	1:Int	ensit		st Clear
Receive log O No addr	resses limit) The object co	ommano	d (The object 	device	O Device + con 00 00 20 EA 3		• 1	rol Chn nc) 1; Int	ensit		st Clear
Receive log No addr 00001 20 1-0410	resses limit 021/08/31	1 17:43) The object co 3:59:945 0	ommand F FC F	d (The object 1 00 31 05	device 04 01 64		Single Char	nnel Con				y-100 2	st Clear
Receive log No addr 10001 20 1-0410 10002 20	resses limit 021/08/31	1 17:43) The object co 3:59:945 0	ommand F FC F	d (The object 1 00 31 05	device 04 01 64	00 00 20 EA S	Single Char	nnel Con				y-100 2	st Clear
No addr No addr 0001 20 -0410 0002 20 -0410	resses limit 021/08/31 021/08/31	1 17:4) The object co 3:59:945 0 4:00:962 0	F FC F	d (C 75 31	 The object 1 00 31 05 1 00 31 05 	device 04 01 64 04 01 64	00 00 20 EA S	Single Char Single Char	nnel Cont	rol Chn no)1;Int	ensit	xy-100 2	st Clear 52-252 52-252
Receive log No addr 00001 20 1-0410 00002 20 1-0410 00003 20	resses limit 021/08/31 021/08/31	1 17:4) The object co 3:59:945 0 4:00:962 0	F FC F	d (C 75 31	 The object 1 00 31 05 1 00 31 05 	device 04 01 64 04 01 64	00 00 20 EA 9	Single Char Single Char	nnel Cont	rol Chn no)1;Int	ensit	xy-100 2	st Clear 52-252 52-252
Receive log No addr No 0001 20 1-0410 00002 20 1-0410 00003 20 1-0410	resses limit 021/08/31 021/08/31 021/08/31	1 17:4 1 17:4 1 17:4) The object co 3:59:945 0 4:00:962 0 4:01:978 0	F FC F	d (C 75 31 C 75 31 C 75 31	 The object 1 00 31 05 1 00 31 05 1 00 31 05 	device 04 01 64 04 01 64 04 01 64	00 00 20 EA 9	Single Char Single Char Single Char	nnel Cont	rol Chn nc)1;Int)1;Int	ensit ensit	ry-100 2 ry-100 2 ry-100 2	st Clear 52-252 52-252 52-252

As you can see the relay cannot be controlled. When you disable the filter, the relay can be controlled again.

Index	Enable	Source	e address	Source sub	net ID	Source device I	D	Command	Comma	Destination address	Destination subnet ID	Destination dev ID
				252		252			0031		5	4
2				255		255			FFFF		255	255
3				255		255			FFFF		255	255
4				255		255			FFFF		255	255
evice			Basic settings									
ubnet ID:	5	(0x05)	Command(He	c): Custom		~	00	32				
evice ID:	4	(0x04)	Source address: Default			Custom		Broadcast computer time		Serial port	 ✓ Fin 	d serial port
			Subnet ID:	-	0 Device ID:		De	vice type:	0	USB Baud rate:	9600 V Data bi	it: 8 🗸
						Ť				Stop bit:	1 V Parity b	bit: None 🗸
On Top			IP:	192 . 16	³ . ¹⁰ .	255	Por	rt:	6000			en serial port
ppend dat												
10	O Hex O	ASCII										
Small	O Big											
0	0-0											
			Interval: 3	000 (VIs)	Start						Send
eceive log	2											

4-0410 4-0410 4-0410 4-0400 2021/08/31 17:47:37:389 10 05 04 01 BC 00 32 FF FF 01 F8 64 04 01 EE 50 Response single channel control Chn no.-1;Intensity-100 5-4-HDL-MR0416.431-0410 00003 2021/08/31 17:47:37:714 0F FC FC 75 31 00 31 05 04 01 00 00 00 67 41 Single Channel Control Chn no.-1;Intensity-0 252-252----> 5-4-0410 00004 2021/08/31 17:47:37:758 10 05 04 01 BC 00 32 FF FF 01 F8 00 04 00 B9 DA Response single channel control Chn no.-1;Intensity-0 5-4-HDL-MR0416.431-0410