

MODBUS ADDRESS NOTATION – AUTOMATIONDIRECT DEVICES



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Stride MQTT Gateway Modbus to AutomationDirect PLC Address Maps

The following tables provide mapping between Stride MQTT Gateway Modbus Addresses and specific AutomationDirect PLC product line addresses.

CLICK PLCs

Reading Coils (Function Code 1)			
Function Code	MQTT Gateway Modbus Address	Data Format	CLICK Address
1	8192	1 bit	Y1
1	8207		Y16
1	8224		Y101
1	8239		Y116
1	8256		Y201
1	8273		Y216
1	8287		Y301
1	8302		Y316
1	8320		Y401
1	8335		Y416
1	8352		Y501
1	8367		Y516
1	8384		Y601
1	8399		Y616
1	8416		Y701
1	8431		Y716
1	8448		Y801
1	8463		Y816
1	16384		C1
1	18383		C2000

Reading Input Registers (Function Code 4)			
Function Code	MQTT Gateway Modbus Address	Data Format	CLICK Address
4	61440	16 bit (INT) or 1 bit	SD0
4	62439		SD1000
4	57344/57345	32 bit (INT)	XD0
4	57360/57361		XD8

Reading Input Bits (Function Code 2)			
Function Code	MQTT Gateway Modbus Address	Data Format	CLICK Address
2	0	1 bit	X1
2	15		X16
2	32		X101
2	47		X116
2	64		X201
2	79		X216
2	96		X301
2	111		X316
2	128		X401
2	143		X416
2	160		X501
2	175		X516
2	192		X601
2	207		X616
2	224		X701
2	239		X716
2	256		X801
2	271		X816
2	45056		T1
2	45555		T500
2	49152		CT1
2	49401		CT250
2	61440		SC1
2	62439		SC1000

Reading Holding Registers (Function Code 3)			
Function Code	MQTT Gateway Modbus Address	Data Format	CLICK Address
3	0	16 bit (INT) or 1 bit	DS1
3	4499		DS4500
3	24576		DH1
3	25075		DH500
3	45056		TD1
3	45555		TD500
3	16384/16385	32 bit (INT)	DD1
3	18382/18383		DD1000
3	49152/49153		CTD1
3	49650/49651		CTD250
3	57856/57857		YD0
3	57872/87873		YD8
3	28672/28673	32 bit (FP)	DF1
3	29670/29671		DF500

DirectLogic PLCs

Reading Coils (Function Code 1)			
Function Code	MQTT Gateway Modbus Address	Data Format	DirectLogic Address
1	0	1 bit	GY0
1	2047		GY3777
1	2048		Y0
1	3071		Y1777
1	3072		C0
1	5119		C3777
1	5120		S0
1	6143		S1777
1	6144		T0
1	6399		T377
1	6400		CT0
1	6655		CT377

Reading Input Bits (Function Code 2)			
Function Code	MQTT Gateway Modbus Address	Data Format	DirectLogic Address
2	0	1 bit	GX0
2	2047		GX3777
2	2048		X0
2	3071		X1777
2	3072		SP0
2	3583		SP777

Reading Input Registers (Function Code 4)			
Function Code	MQTT Gateway Modbus Address	Data Format	DirectLogic Address
4	0	16 bit (INT) or 1 bit	V0
4	17055		V41237
4	0/1	32 bit (INT)	V0/V1
4	1/2		V1/V2
4	17054/17055		V41236/V41237
4	0/1	32 bit (FP)	V0/V1
4	1/2		V1/V2
4	17054/17055		V41236/V41237

Reading Holding Registers (Function Code 3)			
Function Code	MQTT Gateway Modbus Address	Data Format	DirectLogic Address
3	0	16 bit (INT) or 1 bit	V0
3	17055		V41237
3	0/1	32 bit (INT)	V0/V1
3	1/2		V1/V2
3	17054/17055		V41236/V41237
3	0/1	32 bit (FP)	V0/V1
3	1/2		V1/V2
3	17054/17055		V41236/V41237

Do-more PLCs

Reading Coils (Function Code 1)			
Function Code	MQTT Gateway Modbus Address	Data Format	Do-more! Address
1	0	1 bit	MC1
1	1		MC2
1	65534		MC65535

Reading Input Bits (Function Code 2)			
Function Code	MQTT Gateway Modbus Address	Data Format	Do-more! Address
2	0	1 bit	MI1
2	1		MI2
2	65534		MI65535

Reading Input Registers (Function Code 4)			
Function Code	MQTT Gateway Modbus Address	Data Format	Do-more! Address*
4	0	16 bit (INT) or 1 bit	MIR1
4	1		MIR2
4	65534		MIR65535
4	0	32 bit (INT)	-
4	1/2		MIR2:D
4	65533/65534		MIR65534:D
4	0	32 bit (FP)	-
4	1		MIR2:RD
4	65533/65534		MIR65534:RD

* Double integers (32 bit) can only be used on even number addresses in Do-more! (MIR2, MIR4, etc...).

Reading Holding Registers (Function Code 3)			
Function Code	MQTT Gateway Modbus Address	Data Format	Do-more! Address*
3	0	16 bit (INT) or 1 bit	MHR1
3	1		MHR2
3	65534		MHR65535
3	0	32 bit (INT)	-
3	1/2		MHR2:D
3	65533/65534		MHR65534:D
3	0	32 bit (FP)	-
3	1/2		MHR2:RD
3	65533/65534		MHR65534:RD

* Double integers (32 bit) can only be used on even number addresses in Do-more! (MIR2, MIR4, etc...).

Productivity Series PLCs

Reading Coils (Function Code 1)			
Function Code	MQTT Gateway Modbus Address	Data Format	Productivity Address*
1	0	1 bit	000001
1	1		000002
1	65534		065535

* Modbus addresses must be assigned to the tags in the "Tag Database" area of the Productivity Suite Programming Software.

Reading Input Bits (Function Code 2)			
Function Code	MQTT Gateway Modbus Address	Data Format	Productivity Address*
2	0	1 bit	100001
2	1		100002
2	65534		165535

* Modbus addresses must be assigned to the tags in the "Tag Database" area of the Productivity Suite Programming Software.

Reading Input Registers (Function Code 4)			
Function Code	MQTT Gateway Modbus Address	Data Format	Productivity Address*
4	0	16 bit (INT) or 1 bit	300001
4	1		300002
4	65534		365535
4	0	32 bit (INT)	300001/300002
4	1		300002/300003
4	65534		365535/365536
4	0	32 bit (FP)	300001/300002
4	1		300002/300003
4	65534		365535/365536

* Modbus addresses must be assigned to the tags in the "Tag Database" area of the Productivity Suite Programming Software.

Reading Holding Registers (Function Code 3)			
Function Code	MQTT Gateway Modbus Address	Data Format	Productivity Address*
3	0	16 bit (INT) or 1 bit	400001
3	1		400002
3	65534		465535
3	0	32 bit (INT)	400001/400002
3	1		400002/400003
3	65534		465535/465536
3	0	32 bit (FP)	400001/400002
3	1		400002/400003
3	65534		465535/465536

* Modbus addresses must be assigned to the tags in the "Tag Database" area of the Productivity Suite Programming Software