Data Logging Address Notation – AutomationDirect Devices

In this Appendix...

StrideLinx Modbus to AutomationDirect PLC Address Maps

The following tables provide mapping between StrideLinx Modbus addresses and specific AutomationDirect PLC product line addresses.

CLICK PLCs

Reading Coils (Function Code 1)			
Function Code	***StrideLinx Modbus Address***	***Data Type***	***CLICK Address***
1	8192	BOOL	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 Bits (Function Code 2)			
Function Code	***StrideLinx Modbus Address***	***Data Type***	***CLICK Address***
2	0	BOOL	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 Input Registers (Function Code 4)			
Function Code	***StrideLinx Modbus Address***	***Data Type***	***CLICK Address***
4	61440	INT16, UINT16 or BOOL*	SD0
4	62439		SD1000
4	57344/57345	INT32 or UINT32	XD0
4	57360/57361		XD8

* *BOOL: When using BOOL with Input and Holding Registers, a zero value in the register indicates False in the data logger. Any non-zero value indicates True in the data logger.*

Reading Holding Registers (Function Code 3)			
Function Code	***StrideLinx Modbus Address***	***Data Type***	***CLICK Address***
3	0	INT16, UINT16 or BOOL**	DS1
3	4499		DS4500
3	24576		DH1
3	25075		DH500
3	45056		TD1
3	45555		TD500
3	16384/16385	INT32 or UINT32	DD1
3	18382/18383		DD1000
3	49152/49153		CTD1
3	49650/49651		CTD250
3	57856/57857		YD0
3	57872/87873		YD8
3	28672/28673	FLOAT32	DF1
3	29670/29671		DF500

* *BOOL: When using BOOL with Input and Holding Registers, a zero value in the register indicates False in the data logger. Any non-zero value indicates True in the data logger.*

DirectLogic PLCs

Reading Coils (Function Code 1)			
Function Code	***StrideLinx Modbus Address***	***Data Type***	***DirectLogic Address***
1	0	BOOL	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	***StrideLinx Modbus Address***	***Data Type***	***DirectLogic Address***
2	0	BOOL	GX0
2	2047		GX3777
2	2048		X0
2	3071		X1777
2	3072		SP0
2	3583		SP777

Reading Input Registers (Function Code 4)			
Function Code	***StrideLinx Modbus Address***	***Data Type***	***DirectLogic Address***
4	0	INT16, UINT16 or BOOL*	V0
4	17055		V41237
4	0/1	INT32 or UINT32	V0/V1
4	1/2		V1/V2
4	17054/17055		V41236/V41237
4	0/1	FLOAT32	V0/V1
4	1/2		V1/V2
4	17054/17055		V41236/V41237

* *BOOL: When using BOOL with Input and Holding Registers, a zero value in the register indicates False in the data logger. Any non-zero value indicates True in the data logger.*

Reading Holding Registers (Function Code 3)			
Function Code	***StrideLinx Modbus Address***	***Data Type***	***DirectLogic Address***
3	0	INT16, UINT16 or BOOL*	V0
3	17055		V41237
3	0/1	INT32 or UINT32	V0/V1
3	1/2		V1/V2
3	17054/17055		V41236/V41237
3	0/1	FLOAT32	V0/V1
3	1/2		V1/V2
3	17054/17055		V41236/V41237

* *BOOL: When using BOOL with Input and Holding Registers, a zero value in the register indicates False in the data logger. Any non-zero value indicates True in the data logger.*

Do-more PLCs

Reading Coils (Function Code 1)			
Function Code	***StrideLinx Modbus Address***	***Data Type***	***Do-more! Address***
1	0	BOOL	MC1
1	1		MC2
1	65534		MC65535

Reading Input Bits (Function Code 2)			
Function Code	***StrideLinx Modbus Address***	***Data Type***	***Do-more! Address***
2	0	BOOL	MI1
2	1		MI2
2	65534		MI65535

Reading Input Registers (Function Code 4)			
Function Code	***StrideLinx Modbus Address***	***Data Type***	***Do-more! Address*****
4	0	INT16, UINT16 or BOOL*	MIR1
4	1		MIR2
4	65534		MIR65535
4	0	INT32 or UINT32	-
4	1/2		MIR2:D
4	65533/65534		MIR65534:D
4	0	FLOAT32	-
4	1		MIR2:RD
4	65533/65534		MIR65534:RD

* *BOOL: When using BOOL with Input and Holding Registers, a zero value in the register indicates False in the data logger. Any non-zero value indicates True in the data logger.*

** *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	***StrideLinx Modbus Address***	***Data Type***	***Do-more! Address*****
3	0	INT16, UINT16 or BOOL*	MHR1
3	1		MHR2
3	65534		MHR65535
3	0	INT32 or UINT32	-
3	1/2		MHR2:D
3	65533/65534		MHR65534:D
3	0	FLOAT32	-
3	1/2		MHR2:RD
3	65533/65534		MHR65534:RD

* *BOOL: When using BOOL with Input and Holding Registers, a zero value in the register indicates False in the data logger. Any non-zero value indicates True in the data logger.*

** *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	***StrideLinx Modbus Address***	***Data Type***	***Productivity Address****
1	0	BOOL	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	***StrideLinx Modbus Address***	***Data Type***	***Productivity Address****
2	0	BOOL	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	***StrideLinx Modbus Address***	***Data Type***	***Productivity Address*****
4	0	INT16, UINT16 or BOOL*	300001
4	1		300002
4	65534		365535
4	0	INT32 or UINT32	300001/300002
4	1		300002/300003
4	65534		365535/365536
4	0	FLOAT32	300001/300002
4	1		300002/300003
4	65534		365535/365536

* *BOOL: When using BOOL with Input and Holding Registers, a zero value in the register indicates False in the data logger. Any non-zero value indicates True in the data logger.*

** *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	***StrideLinx Modbus Address***	***Data Type***	***Productivity Address*****
3	0	INT16, UINT16 or BOOL*	400001
3	1		400002
3	65534		465535
3	0	INT32 or UINT32	400001/400002
3	1		400002/400003
3	65534		465535/465536
3	0	FLOAT32	400001/400002
3	1		400002/400003
3	65534		465535/465536

* *BOOL: When using BOOL with Input and Holding Registers, a zero value in the register indicates False in the data logger. Any non-zero value indicates True in the data logger.*

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