

Notes:

1. 16-bit registers are transmitted MSB first (i.e. big-endian).
2. INT32 and UINT32 are most-significant word in n+0, least significant word in n+1 (i.e. big-endian).
3. Function codes 3 and 6 are supported
4. Modbus serial RTU is supported.
5. Signed numbers are twos-compliment
6. Status bits are atomic within a single Modbus register. User should not look for consistency across multiple registers, only within a single register.
7. For ASCII strings less than the maximum length, the unused characters are filled with nulls.
8. Single-register reads of reserved or undefined registers will return an error. Block reads which begin with a valid register will not return an error but will return zeros for undefined registers.
9. Strings are two characters per register, first character in high-order byte, second character in low-order byte. Printable ASCII only.
10. Bit #0 is least significant bit.
11. Data Type column: "INT16"=signed 16-bit integer, "UINT16" = unsigned 16-bit integer, "INT32" = signed 32-bit integer, "UINT32" = unsigned 32-bit integer, "ENUM" is a UINT16 value which maps to a defined list of states, "ASCII" = the printable ASCII subset from 0x20 - 0x7E. BOOLEAN= a single bit, 0 or 1.
12. "Absolute Starting Register Address" = 0 (the column heading used in this table) is equivalent to "Register 40001" in Modicon terminology, which is address zero when transmitted over the wire.

For detailed modbus configuration settings, please refer to the User's Guide.

Modicon Standard Register Number	Absolute Starting Register Address, (Hexa-decimal)	Absolute Starting Register Address, (Decimal)	Bit	Data Point	Length # registers	R/W	Data Type	Scale		Valid Response
								Multiply Reading By:	Divide Reading By:	
Status Data										
40001	0x0	0		Differential Pressure	1	R	INT16		1000	Units are inches H2O. The polarity of the pressure measurement is a function of DIP Switch bank 2, switch number 1. (See User Manual).
40002	0x1	1		Door Contact State	1	R	UNIT16			0=All Doors Closed, 1=At Least One Door Open
40003	0x2	2		Pressure Sensor Health	1	R	UNIT16			0=Sensor OK, 1=Sensor Failed
Configuration Data										
40004	0x3	3		Lamp Test Enable	1	R/W	UNIT16			0=Lamp Test Disabled, 1=Lamp Test Enabled
40005	0x4	4		Altitude	1	R/W	UINT16			0 - 3000 meters
END OF MAP										

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