

MODBUS REGISTER	Parameter	Operation	Notes
2 (0x0001)	Process Value	Read Only	Actual Input Value
3 (0x0002)	Unit Status	Read Only	Binary value, details below
		[High Byte]	bit7 Not used
			bit6 Comm. mode 0=Local 1=Remote
			bit5 Not used
			bit4 1=Error present, read register 0x0003
			bit3 Alarm 1 output 0=Off 1=On
			bit2 Not used
			bit1 Not used
			bit0 Not used
		[Low Byte]	bit7 1=NAT error (no activity timer)
			bit6,5,4 Decimal point for Process Value
			000=0 001=0.0 010=0.00 011=0.000
			100=.0000
			bit3 Not used
			bit2,bit1 Engineering units
			00=None 01=Deg. F 10=Deg. C
			bit0 Input value sign 0= Pos. 1= Neg.
4 (0x0003)	Unit Error Status	Read Only	Binary value, details below
		[High Byte]	bit7 Unit Failed Self-test
			bit6 Not used
			bit5 Unit Calibration bad
			bit4 Input overflow
			bit3 Input underflow
			bit2 Bad input
			bit1 Open input
			bit0 Unit Ambient Temp. beyond spec.
		[Low Byte]	bit7 Control Loop break
			bit6 Sensor rate of change exceeds limit
			bit5,bit4,bit3,bit2,bit1,bit0 Not used
257 (0x0100)	Active Set Value	Read Only	**** See note
258 (0x0101)	1SP1	R/W	**** See note
262 (0x0105)	SP2	R/W	**** See note

MODBUS REGISTER	Parameter	Operation	Notes
263 (0x0106)	A1LO	R/W	**** See note
264 (0x0107)	A1HI	R/W	**** See note
267 (0x010A)	SP1D	R/W	
268 (0x010B)	SP2D	R/W	
269 (0x010C)	1PB1	R/W	!! See note
273 (0x0110)	PB2	R/W	!! See note
274 (0x0111)	1RES	R/W	- # = reset + # = offset (-1=.1sec 1=.1%)
278 (0x0115)	1RTE	R/W	WR 1 for 00.01 minutes WR 0 = OFF
282 (0x0119)	ARTE	R/W	WR 1 for 00.01 minutes WR 0 = OFF
283 (0x011A)	FINT	R/W	WR 1 for 1% WR 0 = OFF
284 (0x011B)	FBND	R/W	
285 (0x011C)	FRTE	R/W	WR 1 for 00.01 counts/second
286 (0x011D)	PEA	Read Only	!! See note
287 (0x011E)	VAL	Read Only	!! See note
321 (0x0140)	INPC	R/W	RD / WR in counts **** See note Other parameters can reset to 0
322 (0x0141)	LPBR	R/W	WR 1 = 1 second 0 = OFF
323 (0x0142)	SECR	R/W	1 to 4
324 (0x0143)	INPT	R/W	WR 1 = 0.1 minutes
325 (0x0144)	SENC	R/W	CAN pwr cycle to clr error
326 (0x0145)	SCAL	R/W	Read Only for INP 1 to 14 !! See note
327 (0x0146)	SCAH	R/W	Read Only for INP 1 to 14 !! See note
328 (0x0147)	SPL	R/W	!! See note
329 (0x0148)	SPH	R/W	!! See note

MODBUS REGISTER	Parameter	Operation	Notes
330 (0x0149)	S1OL	R/W	WRITE 50 for 50%
331 (0x014A)	S1OH	R/W	WRITE 50 for 50%
332 (0x014B)	S2OL	R/W	WRITE 50 for 50%
333 (0x014C)	S2OH	R/W	WRITE 50 for 50%
352 (0x015F)	PCTOUT1	Read Only	READ 50 for 50% SP1 Output
353 (0x0160)	PCTOUT2	Read Only	READ 50 for 50% SP2 Output
769 (0x0300)	OUT1	Read Only	[A write to SP1D sets to ON/OFF] 00 or 01 = Time Proportioning 06 = Current or Voltage Output 08 = Pulse 16 = On/Off
770 (0x0301)	OUT1_TP	R/W	1 to 80
771 (0x0302)	OUT1_PUL	R/W	1 to 7
772 (0x0303)	OUT2	Read Only	[A write to SP2D sets to ON/OFF] 00 or 01 = Time Proportioning 06 = Current or Voltage Output 08 = Pulse 16 = On/Off
773 (0x0304)	OUT2_TP	R/W	1 to 80
774 (0x0305)	OUT2_PUL	R/W	1 to 7
775 (0x0306)	1TUN	R/W	Rd 0,4,16,32,48,64 Wr 0 to 4 * see note Rd 0 = Self Tune / Learn No Rd 4 = Self Tune / Learn Yes Rd 16 = PID Rd 32 = Slow Rd 48 = Normal Rd 64 = Fast Wr 0 = Self Tune Wr 1 = PID Wr 2 = Slow Wr 3 = Normal Wr 4 = Fast

MODBUS REGISTER	Parameter	Operation	Notes
779 (0x030A)	1DFAC	R/W	0 to 7
783 (0x030E)	PID2	R/W	0 = Off # = On
784 (0x030F)	ARUP	R/W	0 = Off # = On
785 (0x0310)	PCTO	R/W	0 = Off # = On
791 (0x0316)	FILT	R/W	0 to 99
792 (0x0317)	INP	R/W	1 = J-IC 2 = CA 3 = E 4 = T 5 = L 6 = N 7 = R-13 8 = S-10 9 = B 10 = C 11 = P392 12 = N120 13 = P385 14 = 1P38 15 = CURRENT 16 = VOLTAGE 17 = DIFFERENTIAL
793 (0x0318)	OSUP	R/W	0 = Off # = On
794 (0x0319)	UNIT	R/W	0 = NONE 1 = DEG. F 2 = DEG. C
795 (0x031A)	DPT	R/W	0 = 0 1 = 0.0 2 = 0.00 3 = 0.000 4 = .0000

MODBUS REGISTER	Parameter	Operation	Notes
796 (0x031B)	SP1SETUP	R/W	[High Byte] Not used
		[Low Byte]	bit 7 Not used
			bit6 Not used
			bit5 S1iH 1 = On 0 = Off
			bit4 S1Pi 1 = On 0 = Off
			bit3 S1rE 1 = On/Off 0 = Hold
			bit2 S1LP 1 = Oon 0 = Ooff
			bit1 S1St 1 = dir 0 = rE
			bit0 Not used
797 (0x031C)	SP2SETUP	R/W	[High byte] Not used
		[Low Byte]	bit 7 Not used
			bit6 Not used
			bit5 S2iH 1 = On 0 = Off
			bit4 S2Pi 1 = On 0 = Off
			bit3 S2rE 1 = On/Off 0 = Hold
			bit2 S2LP 1 = Oon 0 = OoFF
			bit1 S2St 1 = dir 0 = rE
			bit0 S2t 1 = AbS 0 = dE
798 (0x031D)	AL1	R/W	0 = Off
			1 = Lo
			2 = Hi
			3 = HiLo
799 (0x031E)	AL1SETUP	R/W	[High byte] Not used
		[Low Byte]	bit7 Not used
			bit6 A1Lb 1 = On 0 = Off
			bit5 A1iH 1 = On 0 = Off
			bit4 A1Pi 1 = On 0 = Off
			bit3 A1rE 1 = OnOF 0 = Hold
			bit2 A1LP 1 = Oon 0 = OoFF
			bit1 A1St 1 = OPEn 0 = CLOS
			bit0 A1t 1 = AbS 0 = dE
805 (0x0324)	LOrE	R/W	0 = LOC # = rE
806 (0x0325)	nAt	Read Only	0 to 99

MODBUS REGISTER		Parameter	Operation	Notes
809	(0x0328)	SP1O	R/W	0 = OutA # = OutB
813	(0x032C)	STOR	R/W	0 = No (WR to RAM) # = Yes (EEPROM)
1025	(0x0400)	LOrE_rE	Write Only	
1026	(0x0401)	LOrE_LOC	Write Only	
1028	(0x0403)	ACK_AL1	Write Only	
1030	(0x0405)	ACK_AL12	Write Only	
1031	(0x0406)	ACK_SP1	Write Only	
1032	(0x0407)	ACK_SP2	Write Only	
1035	(0x040A)	RESET_PEA	Write Only	
1036	(0x040B)	RESET_VAL	Write Only	
1037	(0x040C)	PCTO_ON	Write Only	
1038	(0x040D)	PCTO_OFF	Write Only	
1045	(0x0414)	PID2_ON	Write Only	
1046	(0x0415)	PID2_OFF	Write Only	
1047	(0x0416)	ARUP_ON	Write Only	
1048	(0x0417)	ARUP_OFF	Write Only	
1059	(0x0422)	OSUP_ON	Write Only	
1060	(0x0423)	OSUP_OFF	Write Only	
1067	(0X042A)	1LEARN_YES	Write Only	
1068	(0X042B)	1LEARN_NO	Write Only	
1075	(0x0432)	SP1O_OUTA	Write Only	
1076	(0x0433)	SP1O_OUTB	Write Only	
1089	(0x0440)	STOR_YES	Write Only	write commands are to EEPROM
1090	(0x0441)	STOR_NO	Write Only	write commands are to RAM
1091	(0x0442)	STORE_ALL	Write Only	copy RAM data to EEPROM
1793	(0x0700)	COMM VER #	Read Only	Week/Year in HEX. (ex. 18 01)
1794	(0x0701)	MODEL I.D. #	Read Only	ASCII Char. (ex. 36 32 = 6 2)
1795	(0x0702)	SOFT VER #	Read Only	Week/Year in HEX. (ex. 20 01)

BIT	REGISTER	Parameter	Operation	Notes
1	(0x0000)	Reserved	Read Only	
2	(0x0001)	CHEC LORE	Read Only	No Activity Timer timeout 0=FALSE 1=TRUE
3	(0x0002)	Not used	Read Only	
4	(0x0003)	AL1	Read Only	Alarm 1 output state 0=OFF 1=ON
5	(0x0004)	ERROR PRESENT	Read Only	0=FALSE 1=TRUE
6	(0x0005)	LOC/REM	Read Only	0=LOCAL 1=REMOTE
7	(0x0006)	SENC BAD	Read Only	RATE OF CHANGE > LIMIT 0=FALSE 1=TRUE
8	(0x0007)	AREA	Read Only	AMBIENT BEYOND SPEC 0=FALSE 1=TRUE
9	(0x0008)	OPEN INP	Read Only	0=FALSE 1=TRUE
10	(0x0009)	BAD INP	Read Only	0=FALSE 1=TRUE
11	(0x000A)	UFL	Read Only	0=FALSE 1=TRUE
12	(0x000B)	OFL	Read Only	0=FALSE 1=TRUE
13	(0x000C)	CHEC CAL	Read Only	0=FALSE 1=TRUE
14	(0x000D)	FAIL TEST	Read Only	0=FALSE 1=TRUE
15	(0x000E)	LOOP BAD	Read Only	0=FALSE 1=TRUE
16	(0x000F)	Not used	Read Only	