

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
2	03		&& 00		Process Value	Read Only	Actual Input Value	X	X	X	X	X	X
3	03		&& 00		Unit Status	Read Only	Binary value, details below	X	X	X	X	X	X
						[High Byte]	bit7 Auto/Manual mode, 0=Auto 1=Man		X	X	X		
							bit6 Comm. mode 0=Local 1=Remote	X	X	X	X	X	X
							bit5 Not used						
							bit4 1=Error present, read register 0x0003	X	X	X	X	X	X
							bit3 Alarm 1 output 0=Off 1=On	X	X	X	X		X
							bit2 Alarm 2 output 0=Off 1=On			X	X		X
							bit1, bit0 Local set point selected			X			
							0,0=1SP1 0,1=2SP1						
							1,0=3SP1 1,1=4SP1						
						[Low Byte]	bit7 1=NAT error (no activity timer)	X	X	X	X	X	X
							bit6,5,4 Decimal point for Process Value						
							000=0 001=0.0 010=0.00 011=0.000	X	X	X	X	X	X
							100=0.0000 (bit6 for PP45,16A only)	X	X				X
							bit3 Not used						
							bit2,bit1 Engineering units	X	X	X	X	X	X
							00=None 01=Deg. F 10=Deg. C						
							bit0 Input value sign 0= Pos. 1= Neg.	X	X	X	X	X	X
4	03		&& 05		Unit Error Status	Read Only	Binary value, details below						
						[High Byte]	bit7 Unit Failed Self-test	X	X	X	X	X	X
							bit6 Not used						
							bit5 Unit Calibration bad	X	X	X	X	X	X
							bit4 Input overflow	X	X	X	X	X	X
							bit3 Input underflow	X	X	X	X	X	X
							bit2 Bad input	X	X	X	X	X	X
							bit1 Open input	X	X	X	X	X	X
							bit0 Unit Ambient Temp. beyond spec.	X	X	X	X	X	X

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
						[Low Byte] bit7 Control Loop break	X	X	X	X	X		
						bit6 Sensor rate of change exceeds limit	X	X	X	X	X	X	
						bit5,bit4,bit3,bit2,bit1,bit0 Not used							
7	03		&& 011F		Active Segment	Read Only Programmer segment 1 to 16		X	X	X			
8	03		&& 0120		TBAS	Read Only 0 = 1 second 1 = 60 seconds		X	X	X			
257	03		0100		Active Set Value	Read Only **** See note	X	X	X	X	X		
258	03	06	0101	0200	SP1 or 1SP1	R/W **** See note	X	X	X	X	X		
259	03	06	0102	0201	2SP1	R/W **** See note			X				
260	03	06	0103	0202	3SP1	R/W **** See note			X				
261	03	06	0104	0203	4SP1	R/W **** See note			X				
262	03	06	0105	0204	SP2	R/W **** See note	X	X	X	X			
263	03	06	0106	0205	A1LO	R/W **** See note	X	X	X	X			X
264	03	06	0107	0206	A1HI	R/W **** See note	X	X	X	X			X
265	03	06	0108	0207	A2LO	R/W **** See note			X				X
266	03	06	0109	0208	A2HI	R/W **** See note			X				X
267	03	06	010A	022B	SP1D	R/W	X	X	X	X	X		
268	03	06	010B	022C	SP2D	R/W	X	X	X	X			
269	03	06	010C	022F	PB1 or 1PB1	R/W !! See note	X	X	X	X	X		
270	03	06	010D	0230	2PB1	R/W !! See note			X				
271	03	06	010E	0231	3PB1	R/W !! See note			X				
272	03	06	010F	0232	4PB1	R/W !! See note			X				
273	03	06	0110	023F	PB2	R/W !! See note	X	X	X	X			
274	03	06	0111	0233	RES or 1RES	R/W - # = reset + # = offset	X	X	X	X	X		
275	03	06	0112	0234	2RES	R/W - # = reset + # = offset			X				
276	03	06	0113	0235	3RES	R/W - # = reset + # = offset			X				
277	03	06	0114	0236	4RES	R/W - # = reset + # = offset			X				
278	03	06	0115	0237	RTE or 1RTE	R/W WR 1 for 00.01 minutes WR 0 = OFF	X	X	X	X	X		
279	03	06	0116	0238	2RTE	R/W WR 1 for 00.01 minutes WR 0 = OFF			X				

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
280	03	06	0117	0239	3RTE	R/W	WR 1 for 00.01 minutes WR 0 = OFF			X			
281	03	06	0118	023A	4RTE	R/W	WR 1 for 00.01 minutes WR 0 = OFF			X			
282	03	06	0119	0240	ARTE	R/W	WR 1 for 00.01 minutes WR 0 = OFF	X	X	X	X	X	
283	03	06	011A	0241	FINT	R/W	WR 1 for 1% WR 0 = OFF	X	X	X	X	X	
284	03	06	011B	0242	FBND	R/W		X	X	X	X	X	
285	03	06	011C	0243	FRTE	R/W	WR 1 for 00.01 counts/second	X	X	X	X	X	
286	03		011D		PEA	Read Only	!! See note	X	X	X	X	X	X
287	03		011E		VAL	Read Only	!! See note	X	X	X	X	X	X
288	03		&& 011F		Ti	Read Only	Time remaining in segment.		X	X	X		
289	03	06	0120	0209	1Ti	R/W	Time for segment.		X	X	X		
290	03	06	0121	0219	1SP	R/W	**** See note		X	X	X		
291	03	06	0122	020A	2Ti	R/W	Time for segment.		X	X	X		
292	03	06	0123	021A	2SP	R/W	**** See note		X	X	X		
293	03	06	0124	020B	3Ti	R/W	Time for segment.		X	X	X		
294	03	06	0125	021B	3SP	R/W	**** See note		X	X	X		
295	03	06	0126	020C	4Ti	R/W	Time for segment.		X	X	X		
296	03	06	0127	021C	4SP	R/W	**** See note		X	X	X		
297	03	06	0128	020D	5Ti	R/W	Time for segment.		X	X	X		
298	03	06	0129	021D	5SP	R/W	**** See note		X	X	X		
299	03	06	012A	020E	6Ti	R/W	Time for segment.		X	X	X		
300	03	06	012B	021E	6SP	R/W	**** See note		X	X	X		
301	03	06	012C	020F	7Ti	R/W	Time for segment.		X	X	X		
302	03	06	012D	021F	7SP	R/W	**** See note		X	X	X		
303	03	06	012E	0210	8Ti	R/W	Time for segment.		X	X	X		
304	03	06	012F	0220	8SP	R/W	**** See note		X	X	X		
305	03	06	0130	0211	9Ti	R/W	Time for segment.		X	X	X		
306	03	06	0131	0221	9SP	R/W	**** See note		X	X	X		

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
307	03	06	0132	0212	10Ti	R/W	Time for segment.		X	X	X		
308	03	06	0133	0222	10SP	R/W	**** See note		X	X	X		
309	03	06	0134	0213	11Ti	R/W	Time for segment.		X	X	X		
310	03	06	0135	0223	11SP	R/W	**** See note		X	X	X		
311	03	06	0136	0214	12Ti	R/W	Time for segment.		X	X	X		
312	03	06	0137	0224	12SP	R/W	**** See note		X	X	X		
313	03	06	0138	0215	13Ti	R/W	Time for segment.		X	X	X		
314	03	06	0139	0225	13SP	R/W	**** See note		X	X	X		
315	03	06	013A	0216	14Ti	R/W	Time for segment.		X	X	X		
316	03	06	013B	0226	14SP	R/W	**** See note		X	X	X		
317	03	06	013C	0217	15Ti	R/W	Time for segment.		X	X	X		
318	03	06	013D	0227	15SP	R/W	**** See note		X	X	X		
319	03	06	013E	0218	16Ti	R/W	Time for segment.		X	X	X		
320	03	06	013F	0228	16SP	R/W	**** See note		X	X	X		
321	03	06	0140	024E	INPC	R/W	RD / WR in counts **** See note	X	X	X	X	X	X
							Other parameters can reset to 0						
322	03	06	0141	0244	LPBR	R/W	WR 1 = 1 second 0 = OFF	X	X	X	X	X	
323	03	06	0142	0265	SECR	R/W	1 to 4	X	X	X	X	X	X
324	03	06	0143	0247	INPT	R/W	WR 1 = 0.1 minutes	X	X	X	X	X	X
325	03	06	0144	0245	SENC	R/W	MUST pwr cycle to clr error SCZ	X	X	X	X	X	X
326	03	06	0145	0258	SCAL	R/W	Read Only for INP 1 to 14 !! See note	X	X	X	X	X	X
327	03	06	0146	0259	SCAH	R/W	Read Only for INP 1 to 14 !! See note	X	X	X	X	X	X
328	03	06	0147	0256	SPL	R/W	!! See note	X	X	X	X	X	
329	03	06	0148	0257	SPH	R/W	!! See note	X	X	X	X	X	
330	03	06	0149	0248	S1OL	R/W	WRITE 50 for 50%	X	X	X	X	X	
331	03	06	014A	0249	S1OH	R/W	WRITE 50 for 50%	X	X	X	X	X	
332	03	06	014B	024A	S2OL	R/W	WRITE 50 for 50%	X	X	X	X		
333	03	06	014C	024B	S2OH	R/W	WRITE 50 for 50%	X	X	X	X		

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
334	03	06	014D	0261	POL	R/W	**** See note (Model PP45 only)			X			X
335	03	06	014E	0262	POH	R/W	**** See note (Model PP45 only)			X			X
336	03	06	014F	0263	RSCL	R/W				X			
337	03	06	0150	0264	RSCH	R/W				X			
338	03	06				R/W	Not implemented						
339	03	06				R/W	Not implemented						
340	03	06	0153	0266	MANUALSP1	R/W	WRITE 500 for 50.0% (auto must be off)		X	X	X		
341	03	06	0154	0267	MANUALSP2	R/W	WRITE 500 for 50.0% (auto must be off)		X	X	X		
342	03	06					illegal address for all						
343	03		0156		PCTOUT	Read Only	READ 50 for 50% +=SP1 -=SP2	X	X	X	X	X	X
344	03	06	0157	0269	PRE1	R/W	WRITE 50 for 50%		X		X		
345	03	06	0158	026A	PRE2	R/W	WRITE 50 for 50%		X		X		
346	03	06	0159	026E	A1D	R/W	1 to 9999 counts **** See note						X
347	03	06	015A	026F	A2D	R/W	1 to 9999 counts **** See note						X
348	03	06	015B	026C	A1TD	R/W	0 (off) to 8000 seconds						X
349	03	06	015C	026D	A2TD	R/W	0 (off) to 8000 seconds						X
350	03	06			ALEVNT1_8	R/W	bit=1=On bit=0=Off		X	X	X		
			0120	024C		[High Byte]	bit7 Segment 1 A1 msb						
			0120	024C			bit6 Segment 1 A2						
			0122	024C			bit5 Segment 2 A1						
			0122	024C			bit4 Segment 2 A2						
			0124	024C			bit3 Segment 3 A1						
			0124	024C			bit2 Segment 3 A2						
			0126	024C			bit1 Segment 4 A1						
			0126	024C			bit0 Segment 4 A2 lsb						
			0128	024C		[Low Byte]	bit7 Segment 5 A1 msb						
			0128	024C			bit6 Segment 5 A2						
			012A	024C			bit5 Segment 6 A1						

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
			012A	024C			bit4 Segment 6 A2						
			012C	024C			bit3 Segment 7 A1						
			012C	024C			bit2 Segment 7 A2						
			012E	024C			bit1 Segment 8 A1						
			012E	024C			bit0 Segment 8 A2						
351	03	06			ALEVNT9_16	R/W	bit=1=On bit=0=Off						
			0130	024D		[High Byte]	bit7 Segment 9 A1						
			0130	024D			bit6 Segment 9 A2						
			0132	024D			bit5 Segment 10 A1						
			0132	024D			bit4 Segment 10 A2						
			0134	024D			bit3 Segment 11 A1						
			0134	024D			bit2 Segment 11 A2						
			0136	024D			bit1 Segment 12 A1						
			0136	024D			bit0 Segment 12 A2						
			0138	024D		[Low Byte]	bit7 Segment 13 A1						
			0138	024D			bit6 Segment 13 A2						
			013A	024D			bit5 Segment 14 A1						
			013A	024D			bit4 Segment 14 A2						
			013C	024D			bit3 Segment 15 A1						
			013C	024D			bit2 Segment 15 A2						
			013E	024D			bit1 Segment 16 A1						
			013E	024D			bit0 Segment 16 A2						
352	03				PCTOUT1	Read Only	READ 50 for 50% SP1 Output	X	X	X	X	X	
353	03				PCTOUT2	Read Only	READ 50 for 50% SP2 Output	X	X	X	X	ff	# = On
620		06		026B	Write CAL8	Write Only	Caution! Calibration Register						
769	03		0300		OUT1	Read Only	[A write to SP1D sets to ON/OFF]	X	X	X	X	X	
							00 or 01 = Time Proportioning						
							06 = Current or Voltage Output						
							08 = Pulse						
							16 = On/Off						

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
770	03	06	0301	0229	OUT1_TP	R/W	1 to 80	X	X	X	X	X	
771	03	06	0302	022D	OUT1_PUL	R/W	1 to 7	X	X	X	X	X	
772	03		0303		OUT2	Read Only	[A write to SP2D sets to ON/OFF]	X	X	X	X		
							00 or 01 = Time Proportioning						
							06 = Current or Voltage Output						
							08 = Pulse						
							16 = On/Off						
773	03	06	0304	022A	OUT2_TP	R/W	1 to 80	X	X	X	X		
774	03	06	0305	022E	OUT2_PUL	R/W	1 to 7	X	X	X	X		
775	03	06	0306	025D	TUNE or 1TUN	R/W	Rd 0,4,16,32,48,64 Wr 0 to 4 *see note	X	X	X	X	X	
							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						
776	03	06	0307	025E	2TUN	R/W	Refer to the 1TUN data above			X			
777	03	06	0308	025F	3TUN	R/W	Refer to the 1TUN data above			X			
778	03	06	0309	0260	4TUN	R/W	Refer to the 1TUN data above			X			
779	03	06	030A	023B	DFAC or 1DFAC	R/W	0 to 7	X	X	X	X	X	
780	03	06	030B	023C	2DFAC	R/W	0 to 7			X			

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
781	03	06	030C	023D	3DFAC	R/W	0 to 7			X			
782	03	06	030D	023E	4DFAC	R/W	0 to 7			X			
783	03	06	030E	415/414	PID2	R/W	0 = Off # = On	X	X	X	X		
784	03	06	030F	417/416	ARUP	R/W	0 = Off # = On	X	X	X	X	X	
785	03	06	0310	40D/40C	PCTO	R/W	0 = Off # = On	X	X	X	X		
786	03	06	0311	419/418	PROG	R/W	0 = Off # = On		X	X	X		
787	03	06	0312	41B/41A	PSET	R/W	0 = Off # = On		X	X	X		
788	03	06	0313	41D/41C	STAT	R/W	0 = Off # = On		X	X	X		
789	03	06	0314	420/421	RUNHOLD	R/W	0 = RUN # = HOLD		X	X	X		
790	03	06	0315	024F	PEND	R/W	0 = Hold	X	X	X	X		
							1 = Ooff						
							2 = Loop						
							3 = SP1						
791	03	06	0316	0246	FILT	R/W	0 to 99	X	X	X	X	X	X
792	03	06	0317	025A	INP	R/W	1 = J-IC	X	X	X	X	X	X
							2 = CA						
							3 = E						
							4 = T						
							5 = L						
							6 = N						
							7 = R-13						
							8 = S-10						
							9 = B						
							10 = C						
							11 = P392						N.A.
							12 = N120						N.A.
							13 = P385						N.A.
							14 = 1P38						
							15 = CURRENT						
							16 = VOLTAGE						
							17 = DIFFERENTIAL						N.A.

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
793	03	06	0318	423/422	OSUP	R/W	0 = Off # = On	X	X	X	X	X	X
794	03	06	0319	025B	UNIT	R/W	0 = NONE	X	X	X	X	X	X
							1 = DEG. F						
							2 = DEG. C						
795	03	06	031A	025C	DPT	R/W	0 = 0	X	X	X	X	X	X
							1 = 0.0						
							2 = 0.00						
							3 = 0.000						
							4 = 0.0000			N.A.	N.A.	N.A.	
796	03	06	031B	0252	SP1SETUP	R/W	[High Byte] Not used	X	X	X	X	X	
							[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	03	06	031C	0253	SP2SETUP	R/W	[High byte] Not used	X	X	X	X		
							[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						

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
798	03	06	031D	0250	AL1	R/W	0 = Off 1 = Lo 2 = Hi 3 = HiLo 4 = Evnt	X	X	X	X		X
799	03	06	031E	0254	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	N.A.	X	X	X	X	N.A.
800	03	06	031F	0251	AL2	R/W	0 = Off 1 = Lo 2 = Hi 3 = HiLo 4 = Evnt			X			X
801	03	06	0320	0255	AL2SETUP	R/W	[High byte] Not used [Low Byte] bit7 Not used bit6 A2Lb 1 = On 0 = Off bit5 A2iH 1 = On 0 = Off bit4 A2Pi 1 = On 0 = Off bit3 A2rE 1 = OnOF 0 = Hold bit2 A2LP 1 = Oon 0 = OoFF bit1 A2St 1 = OPEn 0 = CLOS bit0 A2t 1 = AbS 0 = dE			X			N.A.

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
802	03	06	0321	425/424	POSR	R/W	0 = InP # = SPt			X			
803	03	06	0322	410	SP	R/W	0 = 1SP1			X			
				411			1 = 2SP1			X			
				412			2 = 3SP1			X			
				413			3 = 4SP1			X			
804	03	06	0323	40F/40E	SPSA	R/W	0 = Int # = rE			X			
805	03	06	0324	401/400	LOR	R/W	0 = LOC # = rE	X	X	X	X	X	X
806	03	06	0325		nAt	Read Only	0 to 99	X	X	X	X	X	X
807	03	06	0326	427/426	RSPT	R/W	0 = Off # = On			X			
808	03	06			ISEN	R/W	Not functional on ALL						
809	03	06	0328	432/433	SP1O	R/W	0 = OutA # = OutB	X	X		X	X	
810	03	06	0329	0268	InPB	R/W	0 = FAIL		X		X		
							1 = AVE						
							2 = PRE						
811	03	06	032A	434/435	APCT	R/W	0 = Real # = Adj		X		X		
812	03	06	032B	0436	SP2_CONT_AL	R/W	0 = AL # = Cont				X		
813	03	06	032C	0440	STOR	R/W	0 = No (WR to RAM) # = Yes (EEPROM)	X	X	X	X	X	X
1025		06			LOR_rE	Write Only	**note	X	X	X	X	X	X
1026		06			LOR_LOC	Write Only	**note	X	X	X	X	X	X
1027		06			RESET_ENTR	Write Only	Not functional on non-M300						
1028		06		0403	ACK_AL1	Write Only		X	X	X	X		X
1029		06		0404	ACK_AL2	Write Only				X			X
1030		06			ACK_AL12	Write Only				X			X

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
1031		06		0406	ACK_SP1	Write Only		X	X	X	X	X	
1032		06		0407	ACK_SP2	Write Only		X	X	X	X		
1033		06		0408	AUTO_ON	Write Only			X	X	X		
1034		06		0409	AUTO_OFF	Write Only			X	X	X		
1035		06		040A	RESET_PEA	Write Only		X	X	X	X	X	X
1036		06		040B	RESET_VAL	Write Only		X	X	X	X	X	X
1037		06			PCTO_ON	Write Only	**note	X	X	X	X		
1038		06			PCTO_OFF	Write Only	**note	X	X	X	X		
1039		06			SPSA_RE	Write Only	**note			X			
1040		06			SPSA_INT	Write Only	**note			X			
1041		06			SP_1SP1	Write Only	**note			X			
1042		06			SP_2SP1	Write Only	**note			X			
1043		06			SP_3SP1	Write Only	**note			X			
1044		06			SP_4SP1	Write Only	**note			X			
1045		06			PID2_ON	Write Only	**note	X	X	X	X		
1046		06			PID2_OFF	Write Only	**note	X	X	X	X		
1047		06			ARUP_ON	Write Only	**note	X	X	X	X	X	
1048		06			ARUP_OFF	Write Only	**note	X	X	X	X	X	
1049		06			PROG_ON	Write Only	**note		X	X	X		
1050		06			PROG_OFF	Write Only	**note		X	X	X		
1051		06			PSET_ON	Write Only	**note		X	X	X		
1052		06			PSET_OFF	Write Only	**note		X	X	X		
1053		06			STAT_ON	Write Only	**note		X	X	X		
1054		06			STAT_OFF	Write Only	**note		X	X	X		
1055		06		041E	TBAS_1	Write Only			X	X	X		
1056		06		041F	TBAS_60	Write Only			X	X	X		
1057		06			RunHold_RUN	Write Only	**note		X	X	X		
1058		06			RunHold_HOLD	Write Only	**note		X	X	X		

MODBUS			Love		Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45
REGISTER	Read	Write	Read	Write									
1059		06			OSUP_ON	Write Only	**note	X	X	X	X	X	X
1060		06			OSUP_OFF	Write Only	**note	X	X	X	X	X	X
1061		06			POSR_SPT	Write Only	**note			X			
1062		06			POSR_INP	Write Only	**note			X			
1063		06			RSPT_ON	Write Only	**note			X			
1064		06			RSPT_OFF	Write Only	**note			X			
1065		06			ISEN_ON	Write Only	NON-FUNCTIONAL ALL						
1066		06			ISEN_OFF	Write Only	NON-FUNCTIONAL ALL						
1067		06		042A	1LEARN_YES	Write Only		X	X	X	X	X	
1068		06		042B	1LEARN_NO	Write Only		X	X	X	X	X	
1069		06		042C	2LEARN_YES	Write Only				X			
1070		06		042D	2LEARN_NO	Write Only				X			
1071		06		042E	3LEARN_YES	Write Only				X			
1072		06		042F	3LEARN_NO	Write Only				X			
1073		06		0430	4LEARN_YES	Write Only				X			
1074		06		0431	4LEARN_NO	Write Only				X			
1075		06			SP10_OUTA	Write Only	**note	X	X		X	X	
1076		06			SP10_OUTB	Write Only	**note	X	X		X	X	
1077		06			APCT_REAL	Write Only	pcto is real% of control output **note		X		X		
1078		06			APCT_ADJ	Write Only	is adj.% based on S1OL/S1OH **note		X		X		
1079		06			SP2_CONT	Write Only	**note				X		
1080		06			SP2_AL	Write Only	**note				X		
1089		06		0440	STOR_YES	Write Only	write commands are to EEPROM **note	X	X	X	X	X	
1090		06		0441	STOR_NO	Write Only	write commands are to RAM **note	X	X	X	X	X	
1091		06		0442	STORE_ALL	Write Only	copy RAM data to EEPROM	X	X	X	X	X	X
1793	03		0700		COMM_VER #	Read Only	Week/Year in HEX. (ex. 15 00)	X	X	X	X	X	X
1794	03		0701		MODEL_I.D. #	Read Only	ASCII Char. (ex. 53 5A = S Z)	X	X	X	X	X	X
1795	03		0702		SOFT_VER #	Read Only	Week/Year in HEX. (ex. 09 00)	X	X	X	X	X	X

MODBUS			Love	Love										
REGISTER	Read	Write	Read	Write	Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45	
1841	03		0730		Read CAL 2	Read Only	Calibration Register							
1842	03		0731		Read CAL 3	Read Only	Calibration Register							
1843	03		0732		Read CAL 4	Read Only	Calibration Register							
1844	03		0733		Read CAL 5 or 6	Read Only	Calibration Register							
1845	03		0734		Read CAL 7	Read Only	Calibration Register							
1846	03		0735		Read CAL 8	Read Only	Calibration Register							
1847		06		0736	Write CAL 5	Write Only	Caution! Calibration Register							
1848		06		0737	Write CAL 6	Write Only	Caution! Calibration Register							
1849		06		0738	FACT DFLT	Write Only	Unit reboots, gives no response							
						*NOTE:	To write the low nibble (learn yes/no) you must use the corresponding write only command. For example to write the 1TUN yes/no bit use the 1067 1learnyes or 1068 1learnno cmds.							
						**NOTE:	Also exists as a R/W register							
						***NOTE:	Writes to registers above #1024 do not recognize specific values, any data value can be used.							
						****NOTE:	Apply the DPT (0x031A) setting to the register value.							
						!! NOTE:	For INP 15,16,17 apply the DPT setting							
						&& NOTE:	Indicates special difference from Modbus command							

BIT			Love	Love										
REGISTER	Read	Write	Read	Write	Parameter	Operation	Notes	16A2	16A3	26/86	32A	32DZ	PP45	
1	04				Reserved	Read Only								
2	04				CHEC LORE	Read Only	No Activity Timer timeout 0=FALSE 1=T	X	X	X	X	X	X	
3	04				AL2	Read Only	Alarm 2 output state 0=OFF 1=ON			X	X		X	
4	04				AL1	Read Only	Alarm 1 output state 0=OFF 1	X	X	X	X		X	
5	04				ERROR PRESENT	Read Only	0=FALSE 1=TRUE	X	X	X	X	X	X	
6	04				LOC/REM	Read Only	0=LOCAL 1=REMOTE	X	X	X	X	X	X	
7	04				SENC BAD	Read Only	RATE OF CHANGE > LIMIT 0=FALSE 1=T	X	X	X	X	X	X	
8	04				AREA	Read Only	AMBIENT BEYOND SPEC 0=FALSE 1=T	X	X	X	X	X	X	
9	04				OPEN INP	Read Only	0=FALSE 1=TRUE	X	X	X	X	X	X	
10	04				BAD INP	Read Only	0=FALSE 1=TRUE	X	X	X	X	X	X	
11	04				UFL	Read Only	0=FALSE 1=TRUE	X	X	X	X	X	X	
12	04				OFL	Read Only	0=FALSE 1=TRUE	X	X	X	X	X	X	
13	04				CHEC CAL	Read Only	0=FALSE 1=TRUE	X	X	X	X	X	X	
14	04				FAIL TEST	Read Only	0=FALSE 1=TRUE	X	X	X	X	X	X	
15	04				LOOP BAD	Read Only	0=FALSE 1=TRUE	X	X	X	X	X		
16	04				AUTO/MANUAL	Read Only	0=AUTO 1=MANUAL	X	X	X	X	X		