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## Smart Temp EASY ZONE TOUCH Communication Protocol Definitions:

Number	Specification	Protocol Definition
1	Media	RS485
2	Baud Rate	1200-38400BPS
3	Byte format	1 start bit +8 data bit +1 stop bit
4	Parity	None
5	Address	1-32
6	Data format	Modbus

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## Internal Protocol

### 01/15 Data Unit:

Code	Register Address	Specification	
01/15	0	Zone1	1 On, 0 Off
01/15	1	Zone2	1 On, 0 Off
01/15	2	Zone3	1 On, 0 Off
01/15	3	Zone4	1 On, 0 Off
01/15	4	Zone5	1 On, 0 Off
01/15	5	Zone6	1 On, 0 Off
01/15	6	Spill	1 On, 0 Off
01/15	7	System mode is Heating	1 On, 0 Off
01/15	8	System mode is Cooling	1 On, 0 Off

### 03/06 Data Unit:

Code	Register Address	Specification
03/06	0	average temp value

### 04 Data Unit:

Code	Register Address	Specification	
04	0	6 zone board sensor 1	ad value
04	1	6 zone board sensor 2	ad value
04	2	6 zone board sensor 3	ad value
04	3	6 zone board sensor 4	ad value
04	4	6 zone board sensor 5	ad value
04	5	6 zone board sensor 6	ad value
04	6	6 zone board system sensor	ad value

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## PC Protocol

### 03/06 Data Unit:

Code	Register Address	Specification	
03	0	Device	6
03	1	firmware	1.70
03	2	sys status	1 Spill Opened 2 System mode is Heating 3 System mode is Cooling 4 Memory chip Failure 13 System temperature is too low 14 System temperature is too high 15 System Sensor Fault 16 Communication breakdown 17 Zone Sensor Fault 22 Please Select Another Open Zone First 23 Please Select Another Sensing Zone First 24 Less than Minimum Open Zones 25 More than Maximum Active Zones 26 Open at least A Active Zones 27 Max Number of Active Zones reached 28 Less than Minimum Sensing Zones
03/06	3	spill	Open spill when less than 0-4 zones are open
03/06	4	units	0 C, 1 F
03/06	5	mode	0 Basic, 1 Normal, 2 Advanced
03/06	6	display zone temp	0 No, 1 Yes
03/06	7	Thermostat output enable	0 No, 1 Yes
03/06	8	heating temp	temp * 10 Open all zones when heating temp above 99,5C-30,0C 99,5F-86,0F
03/06	9	cooling temp	temp * 10 Open all zones when cooling temp below 20,0C-5,0C 68,0F-5,0F
03/06	10	Minimum Open Zones	0-2
03/06	11	Maximum	1-6

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		Active zones	
<b>03/06</b>	12	Minimum	1-3
		Sensing zones	
	13	Baud Rate	0 1200 BPS 1 2400 BPS 2 4800 BPS 3 9600 BPS 4 19200 BPS 5 38400 BPS
<b>03/06</b>			
<b>03/06</b>	14	Address	1-32
<b>03</b>	15	Average temp	temp * 10
<b>03/06</b>	16	system temp	temp * 10
<b>03/06</b>	17	Message line1	Message letter ASCII type: 32 space
<b>03/06</b>	18	Message line1	Message letter ASCII type: 32 space
<b>03/06</b>	19	Message line1	Message letter ASCII type: 32 space
<b>03/06</b>	20	Message line1	Message letter ASCII type: 83 S
<b>03/06</b>	21	Message line1	Message letter ASCII type: 109 m
<b>03/06</b>	22	Message line1	Message letter ASCII type: 97 a
<b>03/06</b>	23	Message line1	Message letter ASCII type: 114 r
<b>03/06</b>	24	Message line1	Message letter ASCII type: 116 t
<b>03/06</b>	25	Message line1	Message letter ASCII type: 32 space
<b>03/06</b>	26	Message line1	Message letter ASCII type: 84 T
<b>03/06</b>	27	Message line1	Message letter ASCII type: 101 e
<b>03/06</b>	28	Message line1	Message letter ASCII type: 109 m
<b>03/06</b>	29	Message line1	Message letter ASCII type: 112 p
<b>03/06</b>	30	Message line1	Message letter ASCII type: 32 space
<b>03/06</b>	31	Message line1	Message letter ASCII type: 65 A
<b>03/06</b>	32	Message line1	Message letter ASCII type: 117 u
<b>03/06</b>	33	Message line1	Message letter ASCII type: 115 s
<b>03/06</b>	34	Message line1	Message letter ASCII type: 116 t
<b>03/06</b>	35	Message line1	Message letter ASCII type: 114 r
<b>03/06</b>	36	Message line1	Message letter ASCII type: 97 a
<b>03/06</b>	37	Message line1	Message letter ASCII type: 108 l
<b>03/06</b>	38	Message line1	Message letter ASCII type: 105 i
<b>03/06</b>	39	Message line1	Message letter ASCII type: 97 a
<b>03/06</b>	40	Message line1	Message letter ASCII type: 32 space
<b>03/06</b>	41	Message line1	Message letter ASCII type: 32 space
<b>03/06</b>	42	Message line1	Message letter ASCII type: 32 space
<b>03/06</b>	43	Message line2	Message letter ASCII type: 32 space
<b>03/06</b>	44	Message line2	Message letter ASCII type: 32 space
<b>03/06</b>	45	Message line2	Message letter ASCII type: 32 space
<b>03/06</b>	46	Message line2	Message letter ASCII type: 32 space
<b>03/06</b>	47	Message line2	Message letter ASCII type: 32 space

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03/06	48	Message line2	Message letter ASCII type: 69 E
03/06	49	Message line2	Message letter ASCII type: 97 a
03/06	50	Message line2	Message letter ASCII type: 122 z
03/06	51	Message line2	Message letter ASCII type: 121 y
03/06	52	Message line2	Message letter ASCII type: 32 space
03/06	53	Message line2	Message letter ASCII type: 90 Z
03/06	54	Message line2	Message letter ASCII type: 111 o
03/06	55	Message line2	Message letter ASCII type: 110 n
03/06	56	Message line2	Message letter ASCII type: 101 e
03/06	57	Message line2	Message letter ASCII type: 32 space
03/06	58	Message line2	Message letter ASCII type: 84 T
03/06	59	Message line2	Message letter ASCII type: 111 o
03/06	60	Message line2	Message letter ASCII type: 117 u
03/06	61	Message line2	Message letter ASCII type: 99 c
03/06	62	Message line2	Message letter ASCII type: 104 h
03/06	63	Message line2	Message letter ASCII type: 32 space
03/06	64	Message line2	Message letter ASCII type: 32 space
03/06	65	Message line2	Message letter ASCII type: 32 space
03/06	66	Message line2	Message letter ASCII type: 32 space
03/06	67	Message line2	Message letter ASCII type: 32 space
03/06	68	Message line2	Message letter ASCII type: 32 space
03/06	69	Zone1	0 NOT USED 1 name
03/06	70	Zone1 name	ASCII type
03/06	71	Zone1 name	ASCII type
03/06	72	Zone1 name	ASCII type
03/06	73	Zone1 name	ASCII type
03/06	74	Zone1 name	ASCII type
03/06	75	Zone1 name	ASCII type
03/06	76	Zone1 name	ASCII type
03/06	77	Zone1 name	ASCII type
03/06	78	Zone1 name	ASCII type
03/06	79	Zone1 name	ASCII type
03/06	80	Zone1 status	0 off, 1 on, 2 sensing,3 active
03/06	81	Zone1	temp * 10
		cool temp	
	82	Zone1	temp * 10
03/06		heat temp	
03/06	83	Zone1 temp	temp * 10
03/06	84	Zone2	0 NOT USED 1 name
03/06	85	Zone2 name	ASCII type
03/06	86	Zone2 name	ASCII type
03/06	87	Zone2 name	ASCII type
03/06	88	Zone2 name	ASCII type

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03/06	89	Zone2 name	ASICII type
03/06	90	Zone2 name	ASICII type
03/06	91	Zone2 name	ASICII type
03/06	92	Zone2 name	ASICII type
03/06	93	Zone2 name	ASICII type
03/06	94	Zone2 name	ASICII type
03/06	95	Zone2 status	0 off, 1 on, 2 sensing,3 active
03/06	96	Zone2	temp * 10
		cool temp	
03/06	97	Zone2	temp * 10
		heat temp	
03/06	98	Zone2 temp	temp * 10
03/06	99	Zone3	0 NOT USED 1 name
03/06	100	Zone3 name	ASICII type
03/06	101	Zone3 name	ASICII type
03/06	102	Zone3 name	ASICII type
03/06	103	Zone3 name	ASICII type
03/06	104	Zone3 name	ASICII type
03/06	105	Zone3 name	ASICII type
03/06	106	Zone3 name	ASICII type
03/06	107	Zone3 name	ASICII type
03/06	108	Zone3 name	ASICII type
03/06	109	Zone3 name	ASICII type
03/06	110	Zone3 status	0 off, 1 on, 2 sensing,3 active
03/06	111	Zone3	temp * 10
		cool temp	
03/06	112	Zone3	temp * 10
		heat temp	
03/06	113	Zone3 temp	temp * 10
03/06	114	Zone4	0 NOT USED 1 name
03/06	115	Zone4 name	ASICII type
03/06	116	Zone4 name	ASICII type
03/06	117	Zone4 name	ASICII type
03/06	118	Zone4 name	ASICII type
03/06	119	Zone4 name	ASICII type
03/06	120	Zone4 name	ASICII type
03/06	121	Zone4 name	ASICII type
03/06	122	Zone4 name	ASICII type
03/06	123	Zone4 name	ASICII type
03/06	124	Zone4 name	ASICII type
03/06	125	Zone4 status	0 off, 1 on, 2 sensing,3 active
03/06	126	Zone4	temp * 10
		cool temp	

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03/06	127	Zone4 heat temp	temp * 10
03/06	128	Zone4 temp	temp * 10
03/06	129	Zone5	0 NOT USED 1 name
03/06	130	Zone5 name	ASICII type
03/06	131	Zone5 name	ASICII type
03/06	132	Zone5 name	ASICII type
03/06	133	Zone5 name	ASICII type
03/06	134	Zone5 name	ASICII type
03/06	135	Zone5 name	ASICII type
03/06	136	Zone5 name	ASICII type
03/06	137	Zone5 name	ASICII type
03/06	138	Zone5 name	ASICII type
03/06	139	Zone5 name	ASICII type
03/06	140	Zone5 status	0 off, 1 on, 2 sensing,3 active
03/06	141	Zone5 cool temp	temp * 10
03/06	142	Zone5 heat temp	temp * 10
03/06	143	Zone5 temp	temp * 10
03/06	144	Zone6 name	0 NOT USED 1 name
03/06	145	Zone6 name	ASICII type
03/06	146	Zone6 name	ASICII type
03/06	147	Zone6 name	ASICII type
03/06	148	Zone6 name	ASICII type
03/06	149	Zone6 name	ASICII type
03/06	150	Zone6 name	ASICII type
03/06	151	Zone6 name	ASICII type
03/06	152	Zone6 name	ASICII type
03/06	153	Zone6 name	ASICII type
03/06	154	Zone6 name	ASICII type
03/06	155	Zone6 status	0 off, 1 on, 2 sensing,3 active
03/06	156	Zone6 cool temp	temp * 10
03/06	157	Zone6 heat temp	temp * 10
03/06	158	Zone6 temp	temp * 10
03	159	Zone1 Output	0 off, 1 on
03	160	Zone2 Output	0 off, 1 on
03	161	Zone3 Output	0 off, 1 on
03	162	Zone4 Output	0 off, 1 on
03	163	Zone5 Output	0 off, 1 on

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<b>03</b>	164	Zone6 Output	0 off, 1 on
<b>03</b>	165	Spill Output	0 off, 1 on
<b>03</b>	166	Heat led	0 off, 1 on
<b>03</b>	167	Cool led	0 off, 1 on
<b>03</b>	168	Zone1 sensor	0 local, 1 remote



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## 02 Data Unit:

Code	Register Address	Specification	
02	0	6 zone board	0 ok, 1 error

## 04 Data Unit:

Code	Register Address	Specification	
04	0	6 zone board sensor 1	ad value
04	1	6 zone board sensor 2	ad value
04	2	6 zone board sensor 3	ad value
04	3	6 zone board sensor 4	ad value
04	4	6 zone board sensor 5	ad value
04	5	6 zone board sensor 6	ad value
04	6	6 zone board system sensor	ad value
04	7	Wall controller sensor	ad value