Control eHouse BMS system by MODBUS TCP protocol

Rev. 0.1beta

Settings eHouse PRO For Modbus TCP SERVER Stored in /usr/local/e-house/modbus.cfg				
Line: NR	**Function**	**value on**	**value off**	**Description**
1	ModbusEnabled	1	0	Modbus Server Enable
2	Modbus PORT	502	0..2000	TCP/IP Socket PORT
3	Modbus AutoDisconnect	30		Inactivity Disconnect [s] – 0 immediatelly
4	Modbus Autorization Type	3	0..4	**Future:** autorization function (enabling write to registry)
5	Vendor Code	„000000000"		**Future:** Used for changing autorization algoritm
6	Modbus Password	aBBrACaDaBRA		**Future:** Used for autorisation type
7	Modbus TCPSocket Timeout	120		TCP/IP Socket configuation disconnect
8	Modbus Server Debug	1	0	Display Debug information on screen
9	Modbus Hashing Code	„109381098301923"		**Future:** Hashing value for decoding authorization
10	TCP Socket No Delay	1	0	TCP/IP Socket No Delay (Nagle)
11	TCP Socket Keep Alive	1	0	Keep Alive option for TCP/IP Socket Connection

RW – Coils – Binary Outputs (ON/OFF) and other signals which can be readable/writable

R Coils – Binary Inputs (on/off) – Read only signals

RW Registers – values (0...0xffff) which can be readable/writable (ADC Levels, Dimmers, Programs, Events Queue)

R Registers – values (0...0xffff) which are read only (ADC Measurements, Statuses, etc)
Maximal 5 Server connection is available

INFO: http://isys.pl/ DIY: http://smart.ehouse.pro/ DIY PL:http://diy.ehouse.pro/ Shop:http://ehouse.biz/

eHouse PRO Binary Outputs/OFFSET	0	1	2	3	4	5	6	7	8	9	0xA	0xB	0xC	0xD	0xE	0xF
0 BASE Address Ehouse PRO 1..128	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0x10	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
0x20	33															
0x30																
0x40																
0x50																
0x60																
0x70																
0x80 eHouse PRO optional (129..256)																
0x90																
0xa0																
0xb0																
0xc0																
0xd0	RW Coils Address assignment X => Ox+1 (eHouse PRO)															
0xf0	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256
0x100																
0x110																
0x120																
0x130																
0x140																
0x150																
0x160																
0x170																
0x180																
0x190																
0x1a0																
0x1b0																
0x1c0																
0x1d0																
0x1f0																
0x200 eHouse LAN – CM 1..88	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0x210	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
0x220																
0x230	RW Coils Address assignment X-0x200 => Ox+1 (CM - eHouse LAN)															
0x240																
0x250																
0x260																
0x270																
0x280																
0x290																
0x2a0																
0x2b0																
0x2c0																
0x2d0																
0x2f0																
0x300 Future Use Controller	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0x310																
0x320	RW Coils Address assignment X-0x300 => Ox+1 (Future Use)															
0x330																
0x340																
0x350																
0x360																
0x370																
0x380																
0x390																
0x3a0																
0x3b0																
0x3c0																
0x3d0																
0x3e0																
0x3f0																

RW Coils - Outputs

	Other controllers Outputs WiFi, LAN, RS-485, CAN, RF, LORA																/ 128 – Division 128	% 128 – Modulo 128	
0x400	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=0 => EHM	Controller Index Address n= (**X-0x400)/128**	**LAN**n
0x410	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	LAN	Output Index o=**X%128**	
0x420	33	34	35	36	37	38	39	40	1	2	3	4	5	6	7	8	N=0 => HM	Output Index o=**(X-40)%128**	
0x430 – RS-485 (HM)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
0x440	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	RS-485		
0x450 – CAN0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN	Output Index o=**(X-80)%128**	
0x460 – CAN/RF0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	**CAN/RF**	Output Index o=**(X-96)%128**	
0x470 – WIFI	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	LORA		
0x480 – ERM1 => N=1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=1 => ERM1	Controller Index Address n= (**X-0x400)/128**	**LAN**n
0x490	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	LAN	Output Index o=**X%128**	
0x4a0	33	34	35	36	37	38	39	40	1	2	3	4	5	6	7	8	N=1 => RM1	Output Index o=**(X-40)%128**	Rsn
0x4b0 – RS-485 (RM1)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
0x4c0	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	RS-485		
0x4d0 – CAN1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN	Output Index o=**(X-80)%128**	
0x4e0 – CAN/RF1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	**CAN/RF**	Output Index o=**(X-96)%128**	
0x4f0 – WIFI1	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	LORA		
0x500 – ERM2 => N=2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=2	Controller Index Address n= (**X-0x400)/128**	**LAN**n
0x510	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	LAN	Output Index o=**X%128**	
0x520	33	34	35	36	37	38	39	40	1	2	3	4	5	6	7	8		Output Index o=**(X-40)%128**	Rsn
0x530 – RS-485 (RM2)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
0x540	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	RS-485		
0x550 – CAN2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN	Output Index o=**(X-80)%128**	
0x560 – CAN/RF2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	**CAN/RF**	Output Index o=**(X-96)%128**	
0x570 – WIFI	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	LORA		
0x580 – ERM3 => N=3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=3	Controller Index Address n= (**X-0x400)/128**	**LAN**n
0x590	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	LAN	Output Index o=**X%128**	
0x5a0	33	34	35	36	37	38	39	40	1	2	3	4	5	6	7	8		Output Index o=**(X-40)%128**	Rsn
0x5b0 – RS-485 (RM3)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
0x5c0	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	RS-485		
0x5d0 – CAN3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN	Output Index o=**(X-80)%128**	
0x5e0 – CAN/RF3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	**CAN/RF**	Output Index o=**(X-96)%128**	
0x5f0 – WIFI3	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	LORA		

0x8100 – ERM250 => N=250	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=250	Controller Index Address n= (**X-0x400)/128**	**LAN**n
0x8110	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	LAN	Output Index o=**X%128**	
0x8120	33	34	35	36	37	38	39	40	1	2	3	4	5	6	7	8		Output Index o=**(X-40)%128**	Rsn
0x8130 – RS-485 (RM250)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
0x8140	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	RS-485		
0x8150 – CAN250	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN	Output Index o=**(X-80)%128**	
0x8160 – CAN/RF250	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	**CAN/RF**	Output Index o=**(X-96)%128**	
0x8170 – WIFI250	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	LORA		
0x8180 – ERM251 => N=251	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=251	Controller Index Address n= (**X-0x400)/128**	**LAN**n
0x8190	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	LAN	Output Index o=**X%128**	
0x81a0	33	34	35	36	37	38	39	40	1	2	3	4	5	6	7	8		Output Index o=**(X-40)%128**	Rsn
0x81b0 – RS-485 (RM251)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
0x81c0	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	RS-485		
0x81d0 – CAN251	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN	Output Index o=**(X-80)%128**	
0x81e0 – CAN/RF251	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	**CAN/RF**	Output Index o=**(X-96)%128**	
0x81f0 – WIFI251	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	LORA		

R Coils - Inputs

eHouse PRO Binary Inputs/OFFSET	0	1	2	3	4	5	6	7	8	9	0xA	0xB	0xC	0xD	0xE	0xF
0 BASE Address eHouse PRO 1..128	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0x10	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
0x20	33															
0x30	ACTIVE INPUTS															
0x40																
0x50																
0x60																
0x70																
0x80 eHouse PRO optional (129..256)																
0x90																
0xa0																
0xb0																
0xc0																
0xd0	R Coils Address assignment X => Ix+1 (eHouse PRO)															
0xf0	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256
0x100	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0x110	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
0x120	33															
0x130																
0x140	ACTIVE HORN STATE INPUTS															
0x150																
0x160																
0x170																
0x180																
0x190																
0x1a0																
0x1b0																
0x1c0																
0x1d0	R Coils Address assignment X => Ix+1 (eHouse PRO)															
0x1f0	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256
0x200 eHouse LAN – CM 1..80	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0x210	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
0x220																
0x230	R Coils Address assignment X-0x200 => Ix+1 (CM – eHouse LAN)															
0x240	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
0x250																
0x260																
0x270																
0x280																
0x290																
0x2a0																
0x2b0																
0x2c0																
0x2d0																
0x2f0																
0x300 Future Use Controller	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0x310																
0x320	RW Coils Address assignment X-0x300 => Ix+1 (Future Use)															
0x330																
0x340																
0x350																
0x360																
0x370																
0x380																
0x390																
0x3a0																
0x3b0																
0x3c0																
0x3d0																

0x3f0	Other controllers Inputs (LAN, WiFi, RS-485, CAN, RF)																	/128 – Division 128 %128 – Modulo 128	
0x400	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=0 =>EHM	Controller Index Address n= (X-0x400)/128	LANn
0x410	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	LAN	Input Index i=X%128	
0x420	33	34	35	36	37	38	39	40	1	2	3	4	5	6	7	8	N=0 => HM	Input Index i=(X-40)%128	Rsn
0x430 – RS-485 (HM)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
0x440	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	RS-485		
0x450 – CAN0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN	Input Index i=(X-80)%128	
0x460 – CAN/RF0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN/RF	Input Index i=(X-96)%128	
0x470 – WIFI	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	LORA		
0x480 – ERM1 => N=1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=1=>ERM1	Controller Index Address n= (X-0x400)/128	LANn
0x490	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	LAN	Input Index i=X%128	
0x4a0	33	34	35	36	37	38	39	40	1	2	3	4	5	6	7	8	N=1 => RM1	Input Index i=(X-40)%128	Rsn
0x4b0 – RS-485 (RM1)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
0x4c0	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	RS-485		
0x4d0 – CAN1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN	Input Index i=(X-80)%128	
0x4e0 – CAN/RF1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN/RF	Input Index i=(X-96)%128	
0x4f0 – WIFI1	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	LORA		
0x500 – ERM2 => N=2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=2	Controller Index Address n= (X-0x400)/128	LANn
0x510	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	LAN	Input Index i=X%128	
0x520	33	34	35	36	37	38	39	40	1	2	3	4	5	6	7	8		Input Index i=(X-40)%128	Rsn
0x530 – RS-485 (RM2)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
0x540	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	RS-485		
0x550 – CAN2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN	Input Index i=(X-80)%128	
0x560 – CAN/RF2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN/RF	Input Index i=(X-96)%128	
0x570 – WIFI	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	LORA		
0x580 – ERM3 => N=3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=3	Controller Index Address n= (X-0x400)/128	LANn
0x590	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	LAN	Input Index i=X%128	
0x5a0	33	34	35	36	37	38	39	40	1	2	3	4	5	6	7	8		Input Index i=(X-40)%128	Rsn
0x5b0 – RS-485 (RM3)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
0x5c0	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	RS-485		
0x5d0 – CAN3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN	Input Index i=(X-80)%128	
0x5e0 – CAN/RF3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN/RF	Input Index i=(X-96)%128	
0x5f0 – WIFI3	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	LORA		

0x8100 – ERM250 => N=250	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=250	Controller Index Address n= (**X-0x400)/128**	**LAN**n
0x8110	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	LAN	Input Index i=**X%128**	
0x8120	33	34	35	36	37	38	39	40	1	2	3	4	5	6	7	8		Input Index i=**(X-40)%128**	Rsn
0x8130 – RS-485 (RM250)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
0x8140	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	RS-485		
0x8150 – CAN250	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN	Input Index i=**(X-80)%128**	
0x8160 – CAN/RF250	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	**CAN/RF**	Input Index i=**(X-96)%128**	
0x8170 – WIFI250	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	LORA		
0x8180 – ERM251 => N=251	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=251	Controller Index Address n= (**X-0x400)/128**	**LAN**n
0x8190	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	LAN	Input Index i=**X%128**	
0x81a0	33	34	35	36	37	38	39	40	1	2	3	4	5	6	7	8		Input Index i=**(X-40)%128**	Rsn
0x81b0 – RS-485 (RM251)	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
0x81c0	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	RS-485		
0x81d0 – CAN251	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	CAN	Input Index i=**(X-80)%128**	
0x81e0 – CAN/RF251	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	**CAN/RF**	Input Index i=**(X-96)%128**	
0x81f0 – WIFI251	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	LORA		

0x9000 – PRO Inputs in Warning State

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33															

ACTIVE WARNING STATE INPUTS

R Coils Address assignment X => Ix+1 (eHouse PRO)

0x9100 – PRO Inputs in Silent State

241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33															

ACTIVE SILENT ALARM STATE INPUTS

R Coils Address assignment X => Ix+1 (eHouse PRO)

0x9200 – PRO Inputs in Silent State

241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33															

ACTIVE MONITORING STATE INPUTS

R Coils Address assignment X => Ix+1 (eHouse PRO)

241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256

RW Registers

Read/Write Registers /OFFSET	0	1	2	3	4	5	6	7	8	9	0xA	0xB	0xC	0xD	0xE	0xF	
0 BASE Address eHouse PRO ADC LOW THRESHOLD 1..128	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Absolute Values
0x10	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
0x20	33																
0x30																	
0x40	RW Registry Address assignment X => ADCLx+1 (eHouse PRO)																
0x50																	
0x60																	
0x70	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	
0x80 eHouse PRO ADC HIGH THRESHOLD (1..128)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Absolute Values
0x90																	
0xa0																	
0xb0																	
0xc0																	
0xd0	RW Registry Address assignment X => ADCHx+1 (eHouse PRO)																
0xe0																	
0xf0	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	
0x100 eHouse PRO DIMMERS LEVELS (1..128)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Absolute Values
0x110																	
0x120																	
0x130																	
0x140																	
0x150	RW Registry Address assignment X => DIMx+1 (eHouse PRO)																
0x160																	
0x170	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	
0x180 – Execution Queue	EV1[0]	EV1[1]	EV1[2]	EV1[3]	EV1[4]	EV1[5]	EV1[6]	EV1[7]	EV1[8]	EV1[9]							
0x190																	
0x1a0																	
0x1b0																	
0x1c0	Execution eHouse Direct Events Queue (22 Events) 220 bytes																
0x1d0																	
0x1f0																	
0x200																	
0x210																	
0x220																	
0x230																	
0x240																	
0x250																	

RW Registers

	Controller Index Address N= (X-0x400)256								Registry Index o=X%256									
0x400 eHouse LAN – ADC LOW THRESHOLD 1..16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	0..0xfff	N=0
0x410 eHouse LAN – ADC HIGH THRESHOLD 1..16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
0x420 eHouse LAN – PROGRAMS TYPES	PRG	ZONE	ADC-PRG															
0x430 eHouse LAN – DIMMERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
0x440																		
0x450																		
0x460																		
0x470																		
0x480 eHouse RS485 – ADC LOW THRESHOLD 1..16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
0x490 eHouse RS485 – ADC LOW THRESHOLD 1..16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
0x4a0 eHouse RS485 – PROGRAM TYPES	PRG																	
0x4b0 eHouse RS485 – DIMMERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
0x4c0 eHouse CAN – ADC LOW THRESHOLDs 1..4 **0x4c4 eHouse CAN – ADC HIGH THRESHOLDs 1..4** **0x4c8 eHouse CAN – DIMMERS 1..4** **0x4cc eHouse CAN – MORE DTA**	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	8		
0x4d0 eHouse CANRF – ADC LOW THRESHOLDs 1..4 **0x4d4 eHouse CANRF – ADC HIGH THRESHOLDs 1..4** **0x4d8 eHouse CANRF – DIMMERS 1..4** **0x4dc eHouse CANRF – MORE DTA**	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	8		
0x4e0 eHouse WiFi – ADC LOW THRESHOLDs 1..4 **0x4e4 eHouse WiFi – ADC HIGH THRESHOLDs 1..4** **0x4e8 eHouse WiFi – DIMMERS 1..4** **0x4ec eHouse WiFi – MORE DTA**	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	8		
0x4f0 eHouse LORA – ADC LOW THRESHOLDs 1..4 **0x4f4 eHouse LORA – ADC HIGH THRESHOLDs 1..4** **0x4f8 eHouse LORA – DIMMERS 1..4** **0x4fc eHouse LORA – MORE DTA**	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
0x500 eHouse LAN – ADC LOW THRESHOLD 1..16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	0..0xfff	N=1
0x510 eHouse LAN – ADC HIGH THRESHOLD 1..16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
0x520 eHouse LAN – PROGRAMS TYPES	PRG	ZONE	ADCPRG															
0x530 eHouse LAN – DIMMERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
0x540																		
0x550																		
0x560																		
0x570																		
0x580 eHouse RS485 – ADC LOW THRESHOLD 1..16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
0x590 eHouse RS485 – ADC LOW THRESHOLD 1..16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
0x5a0 eHouse RS485 – PROGRAM TYPES	PRG																	
0x5b0 eHouse RS485 – DIMMERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
0x5c0 eHouse CAN – ADC LOW THRESHOLDs 1..4 **0x5c4 eHouse CAN – ADC HIGH THRESHOLDs 1..4** **0x5c8 eHouse CAN – DIMMERS 1..4** **0x5cc eHouse CAN – MORE DTA**	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	8		
0x5d0 eHouse CANRF – ADC LOW THRESHOLDs 1..4 **0x5d4 eHouse CANRF – ADC HIGH THRESHOLDs 1..4** **0x5d8 eHouse CANRF – DIMMERS 1..4** **0x5dc eHouse CANRF – MORE DTA**	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	8		
0x5e0 eHouse WiFi – ADC LOW THRESHOLDs 1..4 **0x5e4 eHouse WiFi – ADC HIGH THRESHOLDs 1..4** **0x5e8 eHouse WiFi – DIMMERS 1..4** **0x5ec eHouse WiFi – MORE DTA**	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	8		
0x5f0 eHouse LORA – ADC LOW THRESHOLDs 1..4 **0x5f4 eHouse LORA – ADC HIGH THRESHOLDs 1..4** **0x5f8 eHouse LORA – DIMMERS 1..4** **0x5fc eHouse LORA – MORE DTA**	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		

R Registers

Read/Write Registers /OFFSET	0	1	2	3	4	5	6	7	8	9	0xA	0xB	0xC	0xD	0xE	0xF	
0 BASE Address eHouse PRO ADC Measurements 1..128	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Absolute Values
0x10	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
0x20	33																
0x30																	
0x40	RW Registry Address assignment X => ADCLx+1 (eHouse PRO)																
0x50																	
0x60																	
0x70	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	
0x80 eHouse PRO MORE (1..128)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Absolute Values
0x90																	
0xa0																	
0xb0																	
0xc0																	
0xd0	RW Registry Address assignment X => ADCHx+1 (eHouse PRO)																
0xe0																	
0xf0	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	
0x100 eHouse PRO Future																	
0x110																	
0x120																	
0x130																	
0x140																	
0x150																	
0x160																	
0x170																	
0x180																	
0x190																	
0x1a0																	
0x1b0																	
0x1c0																	
0x1d0																	
0x1f0																	

	Controller Index Address n= (X-0x200)/256										Registry Index o=X%256						
0x200 eHouse LAN – ADC Measurement 1..16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=0
0x210 eHouse LAN – Status 112 B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0x220																	
0x230																	
0x240	1Byte=>1Word																
0x250																	
0x260																	
0x270																	
0x280 eHouse RS485 – ADC Measurement 1..16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0x290 eHouse RS485 – Status	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0x2a0	1Byte=>1Word																
0x2b0																	
0x2c0 eHouse CAN – ADC Measurements 1..4 0x2c4 Status	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	
0x2d0 eHouse CANRF – Measurements 1..4 0x2d4 – Status	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	
0x2e0 eHouse WiFi – ADC Measurements 1..4 0x2e4 Status	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	
0x2f0 eHouse LORA – ADC Measurements 1..4 0x2f4 eHouse LORA – Status	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	
0x300 eHouse LAN – ADC Measurement 1..16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	N=1
0x310 eHouse LAN – Status 112 B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0x320																	
0x330																	
0x340																	
0x350																	
0x360																	
0x370																	
0x380 eHouse RS485 – ADC Measurement 1..16	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0x390 eHouse RS485 – Status	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
0x3a0																	
0x3b0																	
0x3c0 eHouse CAN – ADC Measurements 1..4 0x3c4 Status	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	
0x3d0 eHouse CANRF – Measurements 1..4 0x3d4 – Status	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	
0x3e0 eHouse WiFi – ADC Measurements 1..4 0x3e4 Status	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	
0x3f0 eHouse LORA – ADC Measurements 1..4 0x3f4 eHouse LORA – Status	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	