



# OI-7010-12 Modbus Register Map

Register Address (Hexadecimal)	Register Address (Decimal)	Data Description	R/W	Length (In Bits)	Units	Valid Response
<b>Radio Data</b>						
1	1	Channel 1 Radio Address	R/W	16	INTEGER	Radio Address (1-255)
2	2	Channel 2 Radio Address	R/W	16	INTEGER	Radio Address (1-255)
3	3	Channel 3 Radio Address	R/W	16	INTEGER	Radio Address (1-255)
4	4	Channel 4 Radio Address	R/W	16	INTEGER	Radio Address (1-255)
5	5	Channel 5 Radio Address	R/W	16	INTEGER	Radio Address (1-255)
6	6	Channel 6 Radio Address	R/W	16	INTEGER	Radio Address (1-255)
7	7	Channel 7 Radio Address	R/W	16	INTEGER	Radio Address (1-255)
8	8	Channel 8 Radio Address	R/W	16	INTEGER	Radio Address (1-255)
9	9	Channel 9 Radio Address	R/W	16	INTEGER	Radio Address (1-255)
A	10	Channel 10 Radio Address	R/W	16	INTEGER	Radio Address (1-255)
B	11	Channel 11 Radio Address	R/W	16	INTEGER	Radio Address (1-255)
C	12	Channel 12 Radio Address	R/W	16	INTEGER	Radio Address (1-255)
D	13	Channel 1 Reading	R	32	FLOAT	Any valid sensor reading
F	15	Channel 2 Reading	R	32	FLOAT	Any valid sensor reading
11	17	Channel 3 Reading	R	32	FLOAT	Any valid sensor reading
13	19	Channel 4 Reading	R	32	FLOAT	Any valid sensor reading
15	21	Channel 5 Reading	R	32	FLOAT	Any valid sensor reading
17	23	Channel 6 Reading	R	32	FLOAT	Any valid sensor reading
19	25	Channel 7 Reading	R	32	FLOAT	Any valid sensor reading
1B	27	Channel 8 Reading	R	32	FLOAT	Any valid sensor reading
1D	29	Channel 9 Reading	R	32	FLOAT	Any valid sensor reading
1F	31	Channel 10 Reading	R	32	FLOAT	Any valid sensor reading
21	33	Channel 11 Reading	R	32	FLOAT	Any valid sensor reading
23	35	Channel 12 Reading	R	32	FLOAT	Any valid sensor reading
25	37	Channel 1 Mode	R	16	ENUMERATION	0-7 See Mode Enumeration Below
26	38	Channel 2 Mode	R	16	ENUMERATION	0-7 See Mode Enumeration Below
27	39	Channel 3 Mode	R	16	ENUMERATION	0-7 See Mode Enumeration Below
28	40	Channel 4 Mode	R	16	ENUMERATION	0-7 See Mode Enumeration Below
29	41	Channel 5 Mode	R	16	ENUMERATION	0-7 See Mode Enumeration Below
2A	42	Channel 6 Mode	R	16	ENUMERATION	0-7 See Mode Enumeration Below
2B	43	Channel 7 Mode	R	16	ENUMERATION	0-7 See Mode Enumeration Below

2C	44	Channel 8 Mode	R	16	ENUMERATION	0-7 See Mode Enumeration Below
2D	45	Channel 9 Mode	R	16	ENUMERATION	0-7 See Mode Enumeration Below
2E	46	Channel 10 Mode	R	16	ENUMERATION	0-7 See Mode Enumeration Below
2F	47	Channel 11 Mode	R	16	ENUMERATION	0-7 See Mode Enumeration Below
30	48	Channel 12 Mode	R	16	ENUMERATION	0-7 See Mode Enumeration Below
31	49	Channel 1 Battery	R	32	FLOAT	Sensor Input Voltage( >= 0.0)
33	51	Channel 2 Battery	R	32	FLOAT	Sensor Input Voltage( >= 0.0)
35	53	Channel 3 Battery	R	32	FLOAT	Sensor Input Voltage( >= 0.0)
37	55	Channel 4 Battery	R	32	FLOAT	Sensor Input Voltage( >= 0.0)
39	57	Channel 5 Battery	R	32	FLOAT	Sensor Input Voltage( >= 0.0)
3B	59	Channel 6 Battery	R	32	FLOAT	Sensor Input Voltage( >= 0.0)
3D	61	Channel 7 Battery	R	32	FLOAT	Sensor Input Voltage( >= 0.0)
3F	63	Channel 8 Battery	R	32	FLOAT	Sensor Input Voltage( >= 0.0)
41	65	Channel 9 Battery	R	32	FLOAT	Sensor Input Voltage( >= 0.0)
43	67	Channel 10 Battery	R	32	FLOAT	Sensor Input Voltage( >= 0.0)
45	69	Channel 11 Battery	R	32	FLOAT	Sensor Input Voltage( >= 0.0)
47	71	Channel 12 Battery	R	32	FLOAT	Sensor Input Voltage( >= 0.0)
49	73	Channel 1 Sec Since Last Message	R	16	INTEGER	-1-32768 Seconds, -1 = no transmissions. Staying 0 = timeout
4A	74	Channel 2 Sec Since Last Message	R	16	INTEGER	-1-32768 Seconds, -1 = no transmissions. Staying 0 = timeout
4B	75	Channel 3 Sec Since Last Message	R	16	INTEGER	-1-32768 Seconds, -1 = no transmissions. Staying 0 = timeout
4C	76	Channel 4 Sec Since Last Message	R	16	INTEGER	-1-32768 Seconds, -1 = no transmissions. Staying 0 = timeout
4D	77	Channel 5 Sec Since Last Message	R	16	INTEGER	-1-32768 Seconds, -1 = no transmissions. Staying 0 = timeout
4E	78	Channel 6 Sec Since Last Message	R	16	INTEGER	-1-32768 Seconds, -1 = no transmissions. Staying 0 = timeout
4F	79	Channel 7 Sec Since Last Message	R	16	INTEGER	-1-32768 Seconds, -1 = no transmissions. Staying 0 = timeout
50	80	Channel 8 Sec Since Last Message	R	16	INTEGER	-1-32768 Seconds, -1 = no transmissions. Staying 0 = timeout
51	81	Channel 9 Sec Since Last Message	R	16	INTEGER	-1-32768 Seconds, -1 = no transmissions. Staying 0 = timeout
52	82	Channel 10 Sec Since Last Message	R	16	INTEGER	-1-32768 Seconds, -1 = no transmissions. Staying 0 = timeout
53	83	Channel 11 Sec Since Last Message	R	16	INTEGER	-1-32768 Seconds, -1 = no transmissions. Staying 0 = timeout
54	84	Channel 12 Sec Since Last Message	R	16	INTEGER	-1-32768 Seconds, -1 = no transmissions. Staying 0 = timeout
55	85	Channel 1 Sensor Type	R	16	ENUMERATION	0-31 See Sensor Type Enumeration Below
56	86	Channel 2 Sensor Type	R	16	ENUMERATION	0-31 See Sensor Type Enumeration Below
57	87	Channel 3 Sensor Type	R	16	ENUMERATION	0-31 See Sensor Type Enumeration Below
58	88	Channel 4 Sensor Type	R	16	ENUMERATION	0-31 See Sensor Type Enumeration Below
59	89	Channel 5 Sensor Type	R	16	ENUMERATION	0-31 See Sensor Type Enumeration Below
5A	90	Channel 6 Sensor Type	R	16	ENUMERATION	0-31 See Sensor Type Enumeration Below
5B	91	Channel 7 Sensor Type	R	16	ENUMERATION	0-31 See Sensor Type Enumeration Below
5C	92	Channel 8 Sensor Type	R	16	ENUMERATION	0-31 See Sensor Type Enumeration Below
5D	93	Channel 9 Sensor Type	R	16	ENUMERATION	0-31 See Sensor Type Enumeration Below
5E	94	Channel 10 Sensor Type	R	16	ENUMERATION	0-31 See Sensor Type Enumeration Below
5F	95	Channel 11 Sensor Type	R	16	ENUMERATION	0-31 See Sensor Type Enumeration Below

60	96	Channel 12 Sensor Type	R	16	ENUMERATION	0-31 See Sensor Type Enumeration Below
61	97	Channel 1 Gas Type	R	16	ENUMERATION	0-127 See Gas Enumeration below
62	98	Channel 2 Gas Type	R	16	ENUMERATION	0-127 See Gas Enumeration below
63	99	Channel 3 Gas Type	R	16	ENUMERATION	0-127 See Gas Enumeration below
64	100	Channel 4 Gas Type	R	16	ENUMERATION	0-127 See Gas Enumeration below
65	101	Channel 5 Gas Type	R	16	ENUMERATION	0-127 See Gas Enumeration below
66	102	Channel 6 Gas Type	R	16	ENUMERATION	0-127 See Gas Enumeration below
67	103	Channel 7 Gas Type	R	16	ENUMERATION	0-127 See Gas Enumeration below
68	104	Channel 8 Gas Type	R	16	ENUMERATION	0-127 See Gas Enumeration below
69	105	Channel 9 Gas Type	R	16	ENUMERATION	0-127 See Gas Enumeration below
6A	106	Channel 10 Gas Type	R	16	ENUMERATION	0-127 See Gas Enumeration below
6B	107	Channel 11 Gas Type	R	16	ENUMERATION	0-127 See Gas Enumeration below
6C	108	Channel 12 Gas Type	R	16	ENUMERATION	0-127 See Gas Enumeration below
6D	109	Channel 1 Fault	R	16	ENUMERATION	0-15 See Fault Enumeration below
6E	110	Channel 2 Fault	R	16	ENUMERATION	0-15 See Fault Enumeration below
6F	111	Channel 3 Fault	R	16	ENUMERATION	0-15 See Fault Enumeration below
70	112	Channel 4 Fault	R	16	ENUMERATION	0-15 See Fault Enumeration below
71	113	Channel 5 Fault	R	16	ENUMERATION	0-15 See Fault Enumeration below
72	114	Channel 6 Fault	R	16	ENUMERATION	0-15 See Fault Enumeration below
73	115	Channel 7 Fault	R	16	ENUMERATION	0-15 See Fault Enumeration below
74	116	Channel 8 Fault	R	16	ENUMERATION	0-15 See Fault Enumeration below
75	117	Channel 9 Fault	R	16	ENUMERATION	0-15 See Fault Enumeration below
76	118	Channel 10 Fault	R	16	ENUMERATION	0-15 See Fault Enumeration below
77	119	Channel 11 Fault	R	16	ENUMERATION	0-15 See Fault Enumeration below
78	120	Channel 12 Fault	R	16	ENUMERATION	0-15 See Fault Enumeration below
79	121	Channel 1 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
7A	122	Channel 2 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
7B	123	Channel 3 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
7C	124	Channel 4 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
7D	125	Channel 5 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
7E	126	Channel 6 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
7F	127	Channel 7 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
80	128	Channel 8 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
81	129	Channel 9 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
82	130	Channel 10 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
83	131	Channel 11 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
84	132	Channel 12 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
85	133	Channel 1 Relay 1 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
86	134	Channel 2 Relay 1 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on
87	135	Channel 3 Relay 1 On/Off	R/W	16	ENUMERATION	0 – 1, 0 means off, 1 means on

88	136	Channel 4 Relay 1 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
89	137	Channel 5 Relay 1 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
8A	138	Channel 6 Relay 1 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
8B	139	Channel 7 Relay 1 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
8C	140	Channel 8 Relay 1 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
8D	141	Channel 9 Relay 1 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
8E	142	Channel 10 Relay 1 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
8F	143	Channel 11 Relay 1 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
90	144	Channel 12 Relay 1 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
91	145	Channel 1 Relay 1 High/Low	R/W	16	ENUMERATION	0 - 1, 0 means low, 1 means high
92	146	Channel 2 Relay 1 High/Low	R/W	16	ENUMERATION	0 - 1, 0 means low, 1 means high
93	147	Channel 3 Relay 1 High/Low	R/W	16	ENUMERATION	0 - 1, 0 means low, 1 means high
94	148	Channel 4 Relay 1 High/Low	R/W	16	ENUMERATION	0 - 1, 0 means low, 1 means high
95	149	Channel 5 Relay 1 High/Low	R/W	16	ENUMERATION	0 - 1, 0 means low, 1 means high
96	150	Channel 6 Relay 1 High/Low	R/W	16	ENUMERATION	0 - 1, 0 means low, 1 means high
97	151	Channel 7 Relay 1 High/Low	R/W	16	ENUMERATION	0 - 1, 0 means low, 1 means high
98	152	Channel 8 Relay 1 High/Low	R/W	16	ENUMERATION	0 - 1, 0 means low, 1 means high
99	153	Channel 9 Relay 1 High/Low	R/W	16	ENUMERATION	0 - 1, 0 means low, 1 means high
9A	154	Channel 10 Relay 1 High/Low	R/W	16	ENUMERATION	0 - 1, 0 means low, 1 means high
9B	155	Channel 11 Relay 1 High/Low	R/W	16	ENUMERATION	0 - 1, 0 means low, 1 means high
9C	156	Channel 12 Relay 1 High/Low	R/W	16	ENUMERATION	0 - 1, 0 means low, 1 means high
9D	157	Channel 1 Relay 1 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
9F	159	Channel 2 Relay 1 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
A1	161	Channel 3 Relay 1 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
A3	163	Channel 4 Relay 1 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
A5	165	Channel 5 Relay 1 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
A7	167	Channel 6 Relay 1 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
A9	169	Channel 7 Relay 1 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
AB	171	Channel 8 Relay 1 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
AD	173	Channel 9 Relay 1 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
AF	175	Channel 10 Relay 1 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
B1	177	Channel 11 Relay 1 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
B3	179	Channel 12 Relay 1 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
B5	181	Channel 1 Relay 1 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1, 0 means unlatch, 1 means latch
B6	182	Channel 2 Relay 1 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1, 0 means unlatch, 1 means latch
B7	183	Channel 3 Relay 1 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1, 0 means unlatch, 1 means latch
B8	184	Channel 4 Relay 1 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1, 0 means unlatch, 1 means latch
B9	185	Channel 5 Relay 1 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1, 0 means unlatch, 1 means latch
BA	186	Channel 6 Relay 1 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1, 0 means unlatch, 1 means latch
BB	187	Channel 7 Relay 1 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1, 0 means unlatch, 1 means latch

BC	188	Channel 8 Relay 1 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
BD	189	Channel 9 Relay 1 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
BE	190	Channel 10 Relay 1 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
BF	191	Channel 11 Relay 1 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
C0	192	Channel 12 Relay 1 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
C1	193	Channel 1 Relay 2 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
C2	194	Channel 2 Relay 2 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
C3	195	Channel 3 Relay 2 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
C4	196	Channel 4 Relay 2 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
C5	197	Channel 5 Relay 2 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
C6	198	Channel 6 Relay 2 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
C7	199	Channel 7 Relay 2 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
C8	200	Channel 8 Relay 2 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
C9	201	Channel 9 Relay 2 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
CA	202	Channel 10 Relay 2 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
CB	203	Channel 11 Relay 2 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
CC	204	Channel 12 Relay 2 On/Off	R/W	16	ENUMERATION	0 - 1, 0 means off, 1 means on
CD	205	Channel 1 Relay 2 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
CE	206	Channel 2 Relay 2 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
CF	207	Channel 3 Relay 2 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
D0	208	Channel 4 Relay 2 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
D1	209	Channel 5 Relay 2 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
D2	210	Channel 6 Relay 2 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
D3	211	Channel 7 Relay 2 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
D4	212	Channel 8 Relay 2 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
D5	213	Channel 9 Relay 2 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
D6	214	Channel 10 Relay 2 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
D7	215	Channel 11 Relay 2 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
D8	216	Channel 12 Relay 2 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
D9	217	Channel 1 Relay 2 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
DB	219	Channel 2 Relay 2 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
DD	221	Channel 3 Relay 2 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
DF	223	Channel 4 Relay 2 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
E1	225	Channel 5 Relay 2 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
E3	227	Channel 6 Relay 2 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
E5	229	Channel 7 Relay 2 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
E7	231	Channel 8 Relay 2 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
E9	233	Channel 9 Relay 2 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
EB	235	Channel 10 Relay 2 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
ED	237	Channel 11 Relay 2 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0

EF	239	Channel 12 Relay 2 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
F1	241	Channel 1 Relay 2 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
F2	242	Channel 2 Relay 2 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
F3	243	Channel 3 Relay 2 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
F4	244	Channel 4 Relay 2 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
F5	245	Channel 5 Relay 2 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
F6	246	Channel 6 Relay 2 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
F7	247	Channel 7 Relay 2 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
F8	248	Channel 8 Relay 2 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
F9	249	Channel 9 Relay 2 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
FA	250	Channel 10 Relay 2 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
FB	251	Channel 11 Relay 2 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
FC	252	Channel 12 Relay 2 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
FD	253	Channel 1 Relay 3 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
FE	254	Channel 2 Relay 3 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
FF	255	Channel 3 Relay 3 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
100	256	Channel 4 Relay 3 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
101	257	Channel 5 Relay 3 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
102	258	Channel 6 Relay 3 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
103	259	Channel 7 Relay 3 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
104	260	Channel 8 Relay 3 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
105	261	Channel 9 Relay 3 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
106	262	Channel 10 Relay 3 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
107	263	Channel 11 Relay 3 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
108	264	Channel 12 Relay 3 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
109	265	Channel 1 Relay 3 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
10A	266	Channel 2 Relay 3 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
10B	267	Channel 3 Relay 3 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
10C	268	Channel 4 Relay 3 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
10D	269	Channel 5 Relay 3 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
10E	270	Channel 6 Relay 3 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
10F	271	Channel 7 Relay 3 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
110	272	Channel 8 Relay 3 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
111	273	Channel 9 Relay 3 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
112	274	Channel 10 Relay 3 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
113	275	Channel 11 Relay 3 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
114	276	Channel 12 Relay 3 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
115	277	Channel 1 Relay 3 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
117	279	Channel 2 Relay 3 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
119	281	Channel 3 Relay 3 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0

11B	283	Channel 4 Relay 3 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
11D	285	Channel 5 Relay 3 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
11F	287	Channel 6 Relay 3 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
121	289	Channel 7 Relay 3 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
123	291	Channel 8 Relay 3 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
125	293	Channel 9 Relay 3 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
127	295	Channel 10 Relay 3 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
129	297	Channel 11 Relay 3 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
12B	299	Channel 12 Relay 3 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
12D	301	Channel 1 Relay 3 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
12E	302	Channel 2 Relay 3 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
12F	303	Channel 3 Relay 3 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
130	304	Channel 4 Relay 3 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
131	305	Channel 5 Relay 3 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
132	306	Channel 6 Relay 3 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
133	307	Channel 7 Relay 3 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
134	308	Channel 8 Relay 3 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
135	309	Channel 9 Relay 3 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
136	310	Channel 10 Relay 3 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
137	311	Channel 11 Relay 3 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
138	312	Channel 12 Relay 3 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
139	313	Channel 1 Relay 4 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
13A	314	Channel 2 Relay 4 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
13B	315	Channel 3 Relay 4 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
13C	316	Channel 4 Relay 4 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
13D	317	Channel 5 Relay 4 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
13E	318	Channel 6 Relay 4 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
13F	319	Channel 7 Relay 4 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
140	320	Channel 8 Relay 4 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
141	321	Channel 9 Relay 4 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
142	322	Channel 10 Relay 4 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
143	323	Channel 11 Relay 4 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
144	324	Channel 12 Relay 4 On/Off	R/W	16	ENUMERATION	0 - 1 ,0 means off, 1 means on
145	325	Channel 1 Relay 4 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
146	326	Channel 2 Relay 4 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
147	327	Channel 3 Relay 4 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
148	328	Channel 4 Relay 4 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
149	329	Channel 5 Relay 4 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
14A	330	Channel 6 Relay 4 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
14B	331	Channel 7 Relay 4 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high

14C	332	Channel 8 Relay 4 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
14D	333	Channel 9 Relay 4 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
14E	334	Channel 10 Relay 4 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
14F	335	Channel 11 Relay 4 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
150	336	Channel 12 Relay 4 High/Low	R/W	16	ENUMERATION	0 - 1 ,0 means low, 1 means high
151	337	Channel 1 Relay 4 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
153	339	Channel 2 Relay 4 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
155	341	Channel 3 Relay 4 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
157	343	Channel 4 Relay 4 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
159	345	Channel 5 Relay 4 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
15B	347	Channel 6 Relay 4 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
15D	349	Channel 7 Relay 4 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
15F	351	Channel 8 Relay 4 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
161	353	Channel 9 Relay 4 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
163	355	Channel 10 Relay 4 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
165	357	Channel 11 Relay 4 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
167	359	Channel 12 Relay 4 Set Point	R/W	32	FLOAT	Any number 65000 or less and higher than 0
169	361	Channel 1 Relay 4 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
16A	362	Channel 2 Relay 4 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
16B	363	Channel 3 Relay 4 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
16C	364	Channel 4 Relay 4 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
16D	365	Channel 5 Relay 4 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
16E	366	Channel 6 Relay 4 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
16F	367	Channel 7 Relay 4 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
170	368	Channel 8 Relay 4 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
171	369	Channel 9 Relay 4 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
172	370	Channel 10 Relay 4 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
173	371	Channel 11 Relay 4 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
174	372	Channel 12 Relay 4 Latch/Unlatch	R/W	16	ENUMERATION	0 - 1 ,0 means unlatch, 1 means latch
175	373	Channel 9 Select Wired or Radio	R/W	16	ENUMERATION	0 - 1 ,0 means wired, 1 means radio
176	374	Channel 10 Select Wired or Radio	R/W	16	ENUMERATION	0 - 1 ,0 means wired, 1 means radio
177	375	Channel 11 Select Wired or Radio	R/W	16	ENUMERATION	0 - 1 ,0 means wired, 1 means radio
178	376	Channel 12 Select Wired or Radio	R/W	16	ENUMERATION	0 - 1 ,0 means wired, 1 means radio
179	377	Channel 9 Scale	R/W	16	INTEGER	1—65000
17A	378	Channel 10 Scale	R/W	16	INTEGER	1—65000
17B	379	Channel 11 Scale	R/W	16	INTEGER	1—65000
17C	380	Channel 12 Scale	R/W	16	INTEGER	1—65000
<b>Modbus and Build Data</b>						
1771	6001	Modbus Address	R/W	16	INTEGER	1 – 247
1772	6002	Modbus Baud Rate	R/W	16	INTEGER	Any Valid Baud Rate. See Below.



1773	6003	Month	R	16	INTEGER	1 – 12
1774	6004	Day	R	16	INTEGER	1 – 31
1775	6005	Year	R	16	INTEGER	2009 –
1776	6006	Serial Number Character	R	16	ENUMERATION	0 – 52 See Serial Number below
1777	6007	Serial Number	R	32	LONG INT	1 – 99999
<b>Settings in Startup Menu</b>						
177A	6010	Can Change Startup Menu Options	R	16	ENUMERATION	0 – 1, 1 can change startup menu items. 0 cannot change.
177B	6011	Restore to Factory Default	R/W	16	ENUMERATION	When read will be 0. When you want to restore write a 1.
177C	6012	Relay 4 as Fault Relay	R/W	16	ENUMERATION	0 – 1, 0 means normal relay, 1 means Fault Relay
177D	6013	Relay 1 Fail Safe	R/W	16	ENUMERATION	0 – 1, 0 means not Fail Safe, 1 means Fail Safe
177E	6014	Relay 2 Fail Safe	R/W	16	ENUMERATION	0 – 1, 0 means not Fail Safe, 1 means Fail Safe
177F	6015	Relay 3 Fail Safe	R/W	16	ENUMERATION	0 – 1, 0 means not Fail Safe, 1 means Fail Safe
1780	6016	Relay 4 Fail Safe	R/W	16	ENUMERATION	0 – 1, 0 means not Fail Safe, 1 means Fail Safe
1781	6017	Fault Terminal Fail Safe	R/W	16	ENUMERATION	0 – 1, 0 means not Fail Safe, 1 means Fail Safe
1782	6018	Radio Timeout	R/W	16	INTEGER	6-255. This is the timeout in minutes.
1783	6019	Network Channel	R/W	16	INTEGER	1–78
1784	6020	Primary Secondary	R/W	16	ENUMERATION	0 – 1, 0 means Primary, 1 means Secondary.
<b>Relays in Alarm State</b>						
1785	6021	Relay 1 is in Alarm	R	16	ENUMERATION	0 – 1, 0 means not in Alarm, 1 means in Alarm
1786	6022	Relay 2 is in Alarm	R	16	ENUMERATION	0 – 1, 0 means not in Alarm, 1 means in Alarm
1787	6023	Relay 3 is in Alarm	R	16	ENUMERATION	0 – 1, 0 means not in Alarm, 1 means in Alarm
1788	6024	Relay 4 is in Alarm	R	16	ENUMERATION	0 – 1, 0 means not in Alarm, 1 means in Alarm
1789	6025	Fault Relay is in Alarm	R	16	ENUMERATION	0 – 1, 0 means not in Alarm, 1 means in Alarm
178A	6026	Channels 1-12 in Alarm	R	32	ENUMERATION	Each bit corresponds to a Channel. 1 means in Alarm
178C	6028	Not used on 12 Channel 7010		32		
178E	6030	Reset Relays	R/W	16	ENUMERATION	Reads always a 0. Write 1 to reset the relays.
<b>Diagnostics Data</b>						
2704	9988	Reset	R/W	16	INTEGER	Read 0. If user sets to 1, resets the unit.
2705	9989	Serial Receive Good Count	R	16	UINT	0 – 65535
2706	9990	Serial Receive Error Count	R	16	UINT	0 – 65535
2707	9991	Serial Transmit Good Count	R	16	UINT	0 – 65535
2708	9992	Serial Transmit Error Count	R	16	UINT	0 – 65535
2709	9993	Radio Receive Good Count	R	16	UINT	0 – 65535
270A	9994	Radio Receive Error Count	R	16	UINT	0 – 65535
270B	9995	Radio Transmit Good Count	R	16	UINT	0 – 65535
270C	9996	Radio Transmit Error Count	R	16	UINT	0 – 65535
270D	9997	Uptime Days	R	16	UINT	0 – 65535
270E	9998	Uptime Hours	R	16	UINT	0 – 65535
270F	9999	Uptime Minutes	R	16	UINT	0 – 65535

MODE SENSOR	MODE
0	NORMAL
1	NULL
2	CALIBRATION
3	RELAY
4	Radio ADD
5	Diagnostic/ Batt
6	Advanced Menu
7	Admin Menu

Serial Number Char	Char
1	A
2	B
3	C
4	D
5	E
6	F
7	G
8	H
9	I
10	J
11	K
12	L
13	M
14	N
15	O
16	P
17	Q
18	R
19	S
20	T
21	U
22	V
23	W
24	X
25	Y
26	Z
27	AA
28	AB

Valid Baud Rates
4800
9600
19200

GAS TYPE NUM	GAS
0	H2S
1	SO2
2	O2
3	CO
4	CL2
5	CO2
6	LEL
7	VOC
8	FEET
9	HCI
10	NH3
11	H2
12	CIO2
13	HCN
14	F2
15	HF
16	CH2O
17	NO2
18	O3
19	INCHES
20	4-20
21	Not Specified
22	C°
23	F°
24..N	Future Gases

SENSOR TYPE NUM	SENSOR
0	EC
1	IR
2	CB
3	MOS
4	PID
5	TANK

29	AC
30	AD
31	AE
32	AF
33	AG
34	AH
35	AI
36	AJ
37	AK
38	AL
39	AM
40	AN
41	AO
42	AP
43	AQ
44	AR
45	AS
46	AT
47	AU
48	AV
49	AW
50	AX
51	AY
52	AZ

64-20
7 SWITCH
8 Unknown
30 WF190
31 None Selected

FAULT	FAULT
0	NONE
1	Sensor Timeout
2	Future Error
3	Future Error
4	ADC not responding
5	Null Failed
6	Cal Failed
7	Future Error
8	Two Sensors Same Address
9	Sensor Radio Timeout
10	When Sensor is wired, it means no sensor is connected
11	Future Error
12	Future Error
13	Unspecified Error on sensor unit. Shown only on Monitor
14	No Primary Monitor at Sensor Head
15	Monitor Fault