

38	26	00100110	102	66	01100110	166	a6	10100110	230	e6	11100110
39	27	00100111	103	67	01100111	167	a7	10100111	231	e7	11100111
40	28	00101000	104	68	01101000	168	a8	10101000	232	e8	11101000
41	29	00101001	105	69	01101001	169	a9	10101001	233	e9	11101001
42	2a	00101010	106	6a	01101010	170	aa	10101010	234	ea	11101010
43	2b	00101011	107	6b	01101011	171	ab	10101011	235	eb	11101011
44	2c	00101100	108	6c	01101100	172	ac	10101100	236	ec	11101100
45	2d	00101101	109	6d	01101101	173	ad	10101101	237	ed	11101101
46	2e	00101110	110	6e	01101110	174	ae	10101110	238	ee	11101110
47	2f	00101111	111	6f	01101111	175	af	10101111	239	ef	11101111
48	30	00110000	112	70	01110000	176	b0	10110000	240	f0	11110000
49	31	00110001	113	71	01110001	177	b1	10110001	241	f1	11110001
50	32	00110010	114	72	01110010	178	b2	10110010	242	f2	11110010
51	33	00110011	115	73	01110011	179	b3	10110011	243	f3	11110011
52	34	00110100	116	74	01110100	180	b4	10110100	244	f4	11110100
53	35	00110101	117	75	01110101	181	b5	10110101	245	f5	11110101
54	36	00110110	118	76	01110110	182	b6	10110110	246	f6	11110110
55	37	00110111	119	77	01110111	183	b7	10110111	247	f7	11110111
56	38	00111000	120	78	01111000	184	b8	10111000	248	f8	11111000
57	39	00111001	121	79	01111001	185	b9	10111001	249	f9	11111001
58	3a	00111010	122	7a	01111010	186	ba	10111010	250	fa	11111010
59	3b	00111011	123	7b	01111011	187	bb	10111011	251	fb	11111011
60	3c	00111100	124	7c	01111100	188	bc	10111100	252	fc	11111100
61	3d	00111101	125	7d	01111101	189	bd	10111101	253	fd	11111101
62	3e	00111110	126	7e	01111110	190	be	10111110	254	fe	11111110
63	3f	00111111	127	7f	01111111	191	bf	10111111	255	ff	11111111

# Conversion Table

Decimal - Hexadecimal - Binary

Dec	Hex	Bin	Dec	Hex	Bin	Dec	Hex	Bin	Dec	Hex	Bin
0	0	00000000	64	40	01000000	128	80	10000000	192	c0	11000000
1	1	00000001	65	41	01000001	129	81	10000001	193	C1	11000001
2	2	00000010	66	42	01000010	130	82	10000010	194	c2	11000010
3	3	00000011	67	43	01000011	131	83	10000011	195	c3	11000011
4	4	00000100	68	44	01000100	132	84	10000100	196	c4	11000100
5	5	00000101	69	45	01000101	133	85	10000101	197	c5	11000101
6	6	00000110	70	46	01000110	134	86	10000110	198	c6	11000110
7	7	00000111	71	47	01000111	135	87	10000111	199	c7	11000111
8	8	00001000	72	48	01001000	136	88	10001000	200	c8	11001000
9	9	00001001	73	49	01001001	137	89	10001001	201	c9	11001001
10	a	00001010	74	4a	01001010	138	8a	10001010	202	ca	11001010
11	b	00001011	75	4b	01001011	139	8b	10001011	203	cb	11001011
12	c	00001100	76	4c	01001100	140	8c	10001100	204	cc	11001100
13	d	00001101	77	4d	01001101	141	8d	10001101	205	cd	11001101
14	e	00001110	78	4e	01001110	142	8e	10001110	206	ce	11001110
15	f	00001111	79	4f	01001111	143	8f	10001111	207	cf	11001111
16	10	00010000	80	50	01010000	144	90	10010000	208	d0	11010000
17	11	00010001	81	51	01010001	145	91	10010001	209	d1	11010001
18	12	00010010	82	52	01010010	146	92	10010010	210	d2	11010010
19	13	00010011	83	53	01010011	147	93	10010011	211	d3	11010011
20	14	00010100	84	54	01010100	148	94	10010100	212	d4	11010100
21	15	00010101	85	55	01010101	149	95	10010101	213	d5	11010101
22	16	00010110	86	56	01010110	150	96	10010110	214	d6	11010110
23	17	00010111	87	57	01010111	151	97	10010111	215	d7	11010111
24	18	00011000	88	58	01011000	152	98	10011000	216	d8	11011000
25	19	00011001	89	59	01011001	153	99	10011001	217	d9	11011001
26	1a	00011010	90	5a	01011010	154	9a	10011010	218	da	11011010
27	1b	00011011	91	5b	01011011	155	9b	10011011	219	db	11011011
28	1c	00011100	92	5c	01011100	156	9c	10011100	220	dc	11011100
29	1d	00011101	93	5d	01011101	157	9d	10011101	221	dd	11011101
30	1e	00011110	94	5e	01011110	158	9e	10011110	222	de	11011110
31	1f	00011111	95	5f	01011111	159	9f	10011111	223	df	11011111
32	20	00100000	96	60	01100000	160	a0	10100000	224	e0	11100000
33	21	00100001	97	61	01100001	161	a1	10100001	225	e1	11100001
34	22	00100010	98	62	01100010	162	a2	10100010	226	e2	11100010
35	23	00100011	99	63	01100011	163	a3	10100011	227	e3	11100011
36	24	00100100	100	64	01100100	164	a4	10100100	228	e4	11100100
37	25	00100101	101	65	01100101	165	a5	10100101	229	e5	11100101

## Specifications:

- 433.92 MHz Keeloq rolling code: 4.3 billion combination
- SAW resonator (filter) locked (+/- 75KHz)
- ASK Superhet technology
- Operating Range: 150m (open air)
- Capacity:
  - In Site Code Verification mode: 4,000 fobs. Larger capacity version available on request
  - In Non-Verification mode: 65,000 fobs

## Transmitter

- Transmitting power: <10mW
- Operating Voltage: 6 V powered by 2 x 3 VDC lithium batteries
- Battery Life: A minimum of 4 years under normal operating conditions with the recommended battery types: CR2032 from Everyday, Duracell, Malak or Panasonic
- Current: <1uA standby; 12mA operating
- Auto shutoff: the remote stops transmitting if a button gets pressed for 25s

## Receiver

- Operating voltage: 6-15VDC
- Current: 8mA Standby; 40mA Max
- LED indication for site code verification
- Reverse polarity protection

## Performance

- Flexible operation - dual mode: Site Code Verification and Non-verification (all pass-through) mode
- Standard 26 bit Wiegand format
- Prox tags: rewritable HID 26 bit and EM format
- 4 channel output
- Long range – minimum of 150m
- High security – Keeloq rolling code
- Robust and attractive fob - metallic finish
- No false activation – sliding cover to prevent accidental activation
- Long battery life – minimum of 4 years in normal operating condition
- Auto shut-off – the battery in the fob will shut off when a button is pressed for 25seconds
- Large capacity - 4,000 in Site-Code Verification mode, and 64,000 in Non-Verification mode
- Reverse polarity protection
- Outdoor application – IP55 (receiver)

## Convenience

- Easy to learn a fob – self learning
- Easy to wire – a cable conduit is mounted at the bottom of the case
- Easy to replace antenna – the attached antenna is detachable via TNC connectors

## Also Available

- Independent 4-relay output with large capacity of 500
- Data-bus output

# Activor® Wiegand output remote control – RSW01

## Instruction

### Data format

26bit Wiegand format – other format available on request

### Site code verification and non-verification (pass through) modes

These two options can be chosen via on-board 2-way DIP setting.



(Off Off)

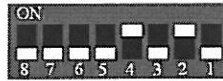
Site Code Verification (default)



(On Off)

Non-Verification

In the Site Code Verification mode, the site code will be verified before the serial number is transmitted to the access controller. Any serial number with non-matching site code will not be passed through. You need to set site code correctly through 8-way DIP setting before operation.



For example: for site 10 (decimal), you need to set DIP as 00001010 (binary). Conversion (decimal-hexadecimal-binary) table is provided with each receiver.

The on-board LED indicates whether the serial number is passed through.

In the Non-Verification mode, all serial numbers will be passed through.

### Serial Number

Serial number is programmed into each fob and encrypted with rolling code for maximum level of security.

Each fob is labelled with a unique 6-digit serial number in hexadecimal. First two digits represent site code, while the last 4 are ID code.

### Data output

4 button Wiegand outputs are marked in terminal block as (A0, A1), (B0, B1), (C0, C1), (D0, D1). Each pair consists of Data 0 and Data 1.

By default, data output is 10KOhm pull up to 12VDC. The voltage can be changed to 5VDC by removing on-board jumper from 12V to 5V position.

### Antenna Extension

A TNC socket mounted in the case is used for antenna extension when it is needed.

### Provision for Prox Tag

Rewritable HID (26bit) and EM format