jcm tech CONNECT4 CC Access Control User Manual

jcm tech CONNECT4 CC Access Control

User Manual

jcm tech
technology & imagination

CONNECT4 CC

User Manual

Contents

Important safety instructions

 Disconnect the power supply whenever you proceed with the installation or repair of the equipment.

In compliance with the European Low Voltage Directive, we inform you of the following requirements:

- When the devices remain permanently connected, an easily accessible connecting device must be incorporated into the wiring.
- This system must only be installed by qqualified professionals that have experience with automated garage doors and knowledge of the relevant European standards.
- The user instructions for this device must always be in the user's possession.
- The operating frequency of the receiver does not interfere in any way with the 868 MHz remote control systems.

Use of the equipment

This device is designed for applications with an automated garage door. It is not guaranteed for the direct activation of devices other than those specified. The manufacturer reserves the right to change the specifications of the device without warning.

Introduction

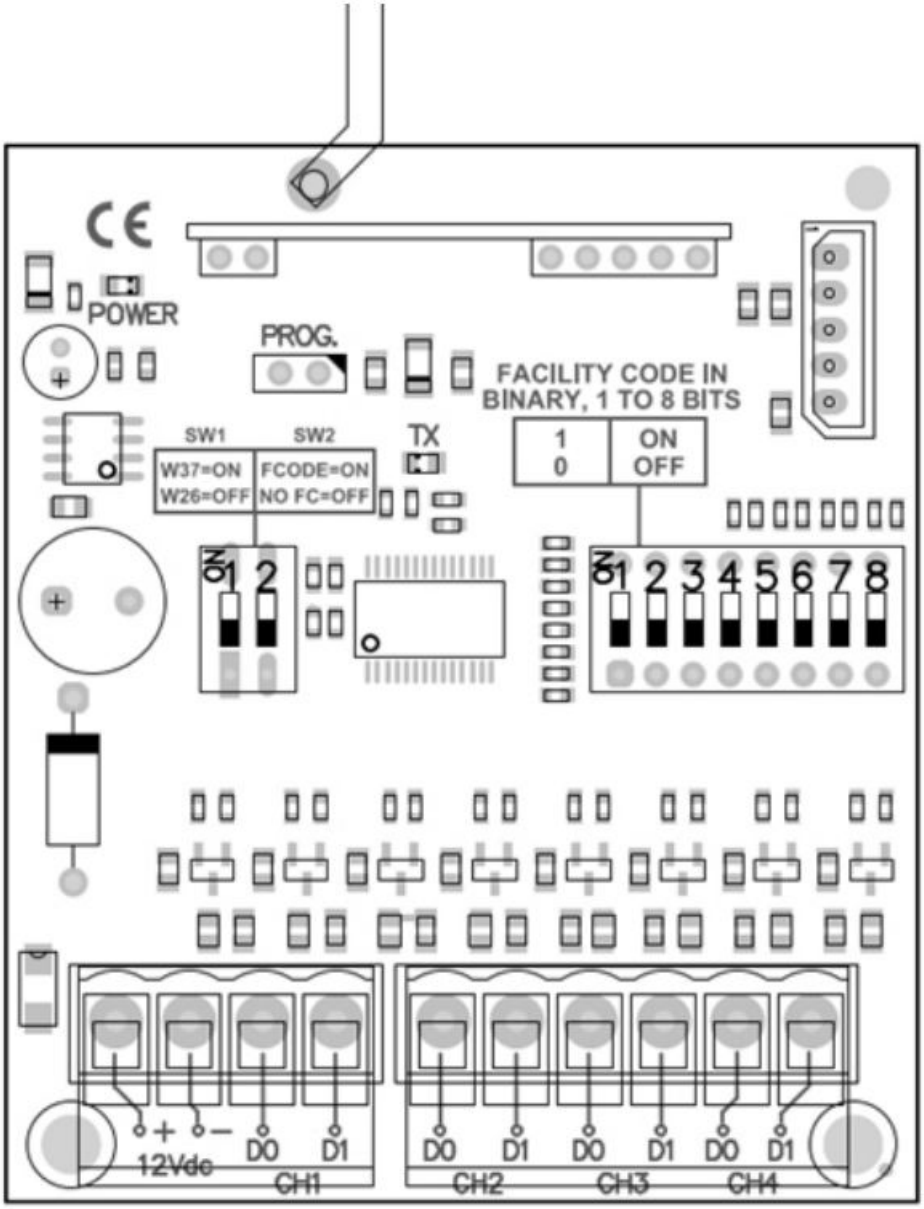
Multiprotocol receiver compatible with MOTION transmitters. Codifies the transmitter signal in two different protocols according to its configuration: Wiegand 26 and Wiegand 37.

Installation and connections

Attach the rear part of the housing to the wall using the plugs and screws supplied. Pass the cables through the bottom of the receiver. Connect the power cables to the terminals marked on the mother board, as indicated. Fix the receiver front to the rear part using the screws supplied.

Operating

The CONNECT-MCH FC is a receiver that will pass incoming frames from remote controls via a selected channel (1 out of 4) towards a central (Led TX= ON).
The channel depends on the button that is pressed on the remote control.
The frame that is delivered at D0-D1 of channel CH1/CH2/CH3/CH4 is of type WIEGAND.



Wiegand formats:

W26, NO Facility Code:

- 1 bit – Even parity (of next 12 bits)
- 4 bit – Zeros
- 20 bit – Remote control number, complete.
- 1 bit – Odd parity (of last 12 bits)

W26, with Facility CODE:

- 1 bit – Even parity (of next 12 bits)
- 8 bit – Facility Code as set by 8 switches.

- 16 bit – Remote control number, lower part (*)
- 1 bit – Odd parity (of last 12 bits)

(*): up to 65536 remote controls with consecutive numbers may be used.

W37:

- 1 bit – Even parity (of next 18 bits)
- 8 bit – Counter
- 2 bit – Zeros
- 3 bit – Substitute
- 3 bit – Channel DCS
- 19 bit – Remote control number
- 1 bit – Odd parity (of last 18 bits)

Configuration and connection for the different protocols

Switch SW1 allows to select the short W26 (SW1= OFF) or the long W37 (SW1= ON) format.
In case the short W26 is selected, the content of the frame may be NO FC (SW2= OFF), or include a so called Facility Code (SW2= ON).
In this case, the value of the Facility Code in Binary is set by 8 switches, each one defining either a 0= OFF or 1= ON.

Protocol	Power	Remote Control	Signal Output	SW1	SW2	Facility Code 1 to 8 Bits	FRAME FORMAT
W26 NO Facility Code	+ -	Button 1/2/3/4	CH1/2/3/4 D0-D1	OFF	OFF	don't care	EP(1)-Zeros(4)-Remote Control Number(20)-OP(1)
W37	+ -	Button 1/2/3/4	CH1/2/3/4 D0-D1	ON	don't care	don't care	EP(1)-Counter(8)-Zeros(2)-Sub(3)-DCS(3)-Remote Control Number(19)-OP(1)
W26 with Facility Code	+ -	Button 1/2/3/4	CH1/2/3/4 D0-D1	OFF	ON	mode Facility Code *	EP(1)-Facility Code(8)-Remote Control Number(16)-OP(1)

* Facility Code: SW1-8, 0=OFF/1=ON

DEC	BIN	DEC	BIN	DEC	BIN	DEC	BIN
0	00000000	16	00010000	32	00100000	48	00110000
1	00000001	17	00010001	33	00100001	49	00110001
2	00000010	18	00010010	34	00100010	50	00110010
3	00000011	19	00010011	35	00100011	51	00110011
4	00000100	20	00010100	36	00100100	52	00110100
5	00000101	21	00010101	37	00100101	53	00110101
6	00000110	22	00010110	38	00100110	54	00110110
7	00000111	23	00010111	39	00100111	55	00110111
8	00001000	24	00011000	40	00101000	56	00111000
9	00001001	25	00011001	41	00101001	57	00111001
10	00001010	26	00011010	42	00101010	58	00111010
11	00001011	27	00011011	43	00101011	59	00111011
12	00001100	28	00011100	44	00101100	60	00111100
13	00001101	29	00011101	45	00101101	61	00111101
14	00001110	30	00011110	46	00101110	62	00111110
15	00001111	31	00011111	47	00101111	63	00111111

DEC	BIN	DEC	BIN	DEC	BIN	DEC	BIN
64	01000000	80	01010000	96	01100000	112	01110000
65	01000001	81	01010001	97	01100001	113	01110001
66	01000010	82	01010010	98	01100010	114	01110010
67	01000011	83	01010011	99	01100011	115	01110011
68	01000100	84	01010100	100	01100100	116	01110100
69	01000101	85	01010101	101	01100101	117	01110101
70	01000110	86	01010110	102	01100110	118	01110110
71	01000111	87	01010111	103	01100111	119	01110111
72	01001000	88	01011000	104	01101000	120	01111000
73	01001001	89	01011001	105	01101001	121	01111001
74	01001010	90	01011010	106	01101010	122	01111010
75	01001011	91	01011011	107	01101011	123	01111011
76	01001100	92	01011100	108	01101100	124	01111100
77	01001101	93	01011101	109	01101101	125	01111101
78	01001110	94	01011110	110	01101110	126	01111110
79	01001111	95	01011111	111	01101111	127	01111111

DEC	BIN	DEC	BIN	DEC	BIN	DEC	BIN
128	10000000	144	10010000	160	10100000	176	10110000
129	10000001	145	10010001	161	10100001	177	10110001
130	10000010	146	10010010	162	10100010	178	10110010
131	10000011	147	10010011	163	10100011	179	10110011
132	10000100	148	10010100	164	10100100	180	10110100
133	10000101	149	10010101	165	10100101	181	10110101
134	10000110	150	10010110	166	10100110	182	10110110
135	10000111	151	10010111	167	10100111	183	10110111
136	10001000	152	10011000	168	10101000	184	10111000
137	10001001	153	10011001	169	10101001	185	10111001
138	10001010	154	10011010	170	10101010	186	10111010
139	10001011	155	10011011	171	10101011	187	10111011
140	10001100	156	10011100	172	10101100	188	10111100
141	10001101	157	10011101	173	10101101	189	10111101
142	10001110	158	10011110	174	10101110	190	10111110
143	10001111	159	10011111	175	10101111	191	10111111

DEC	BIN	DEC	BIN	DEC	BIN	DEC	BIN
192	11000000	208	11010000	224	11100000	240	11110000
193	11000001	209	11010001	225	11100001	241	11110001
194	11000010	210	11010010	226	11100010	242	11110010
195	11000011	211	11010011	227	11100011	243	11110011
196	11000100	212	11010100	228	11100100	244	11110100
197	11000101	213	11010101	229	11100101	245	11110101
198	11000110	214	11010110	230	11100110	246	11110110
199	11000111	215	11010111	231	11100111	247	11110111
200	11001000	216	11011000	232	11101000	248	11111000
201	11001001	217	11011001	233	11101001	249	11111001
202	11001010	218	11011010	234	11101010	250	11111010
203	11001011	219	11011011	235	11101011	251	11111011
204	11001100	220	11011100	236	11101100	252	11111100
205	11001101	221	11011101	237	11101101	253	11111101
206	11001110	222	11011110	238	11101110	254	11111110
207	11001111	223	11011111	239	11101111	255	11111111

Groups

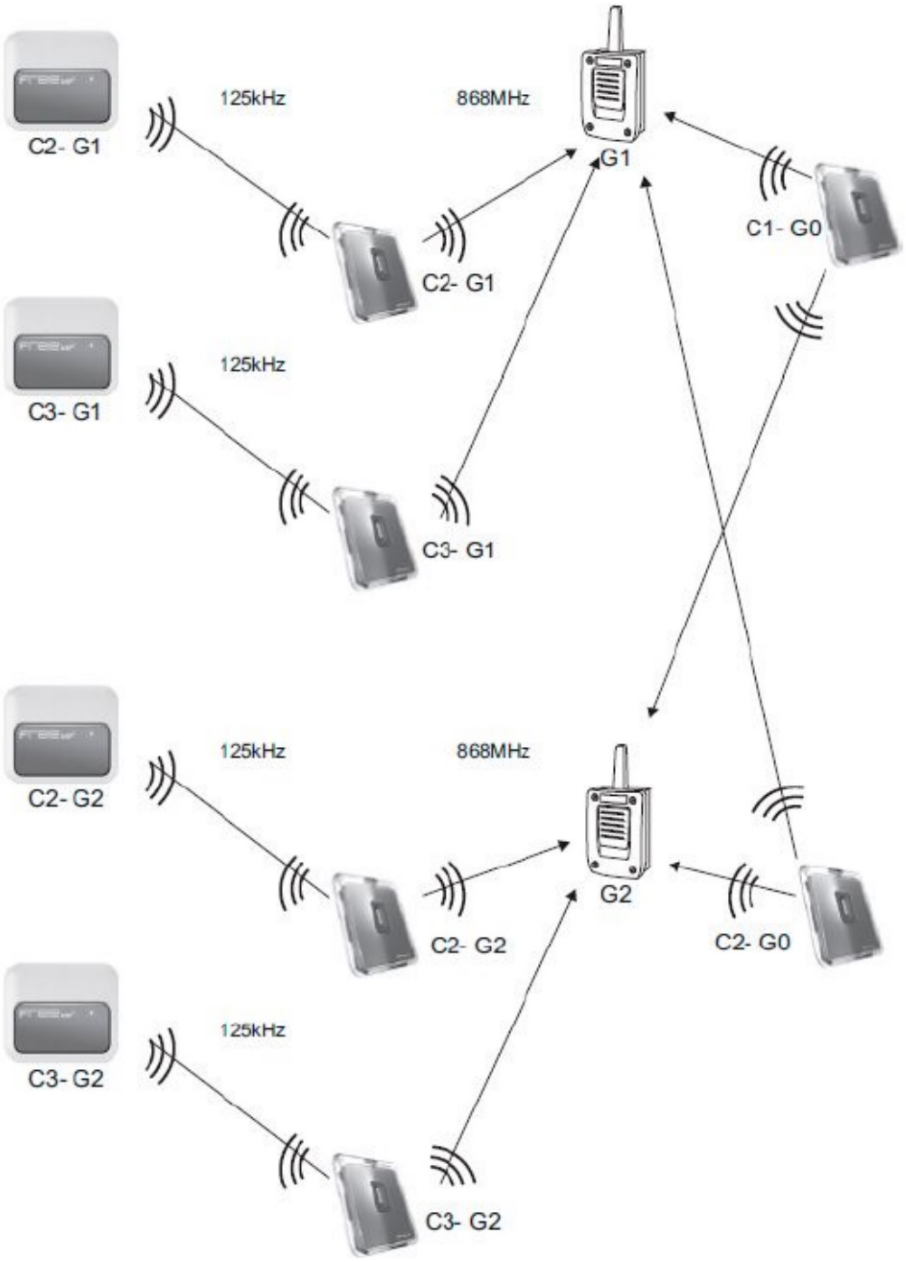
Receivers can be configured with a group (from 0 to 7) so that there is no interference when working near each other.

Group configuration

The configuration can be carried out with the programming tool or by self-programming as follows

Self-programming: After the receiver has been totally reset, it will be configured with the group of the first radio-programmed transmitter by enabling the hands free mode.
Exception: If the receiver has been configured using programming tools, the group may only be changed with the programming tool.

Operations: On powering the receiver, the led R1 will flash the same number of times as the group number with which it is configured.



C = channel

G = group

Group 0 enables all groups.

Notes

Technical data

Parameter	Value
Power Supply	12V dc (9Vdc-21Vdc)
Frequency	868,35MHz
Consumption standby / operating	14mA/36mA
Operating temperature	-20ºC / +85ºC
Size (L/W/H)	82x190x40mm
Watertighness	IP54 (with cable gland IP65)

Regulatory Data

FCC / ISED Compliance

Model: CONNECT4 CC, CONNECT4 ACT, CONNECT4 CC-CIC
FCC ID: U5Z-CONNECT4CC

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Part 15 of the FCC Rules and with Innovation, Science and Economic Development Canada's licence-exempt RSS(s) .
Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

CAN ICES-003 (B)

This Class B digital apparatus complies with Canadian ICES-003.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.

Documents / Resources

	**jcm tech CONNECT4 CC Access Control** [pdf] User Manual CONNECT4CC, U5Z-CONNECT4CC, U5ZCONNECT4CC, CONNECT4 CC Access Control, CONNECT4 CC, Access Control