

93500 PANTIN FRANCE Tel: 33 (0)1 48 91 01 02 Fax: 33 (0)1 48 91 21 21 www.cdvi.com

# GALEO/W

ILLUMINATED ONLINE KEYPAD
26 BIT OUTPUT FORMAT, CLOCK &
DATA and CDVI OUTPUT FORMAT

**IP 64 DM** 



CABLE	Description
Red	12V DC (+)
Black	0V
Brown	Buzzer command input
Green	Data 0
White	Data 1
Blue	Clock
Gray	0V common

MOUNTING KIT									
Qty	Description	Utilisation							
1	M4x10 tamper screw	emmanus (	GALEO Mounting screw						
1	T20 spanner		For the M4x10 screw						
4	M4x30 mounting screws	The same of the sa	2 * keypad back plate 2 * Remote Controller						
2	Caps		GALEO cap						
4	S5 plastic anchor	the the the	2 * keypad back plate 2 * Remote Controller						
1	05D 680K varistor	20	For the lock						
2	Wiring sealed caps		Cable to the controller						

Dimensions: 110 x 75 x 15 mm

# I O N M N O I

 $\triangleleft$ 

⋖

S

Z

### I. GENERAL INFORMATION

### A. Description

Input voltage 12V DC 12-digit illuminated keypad keys EEPROM memory storage User code in 4, 5 or 6 digits Buzzer ST1 jumper for programming

### B. Default values

Illumination duration: 10 seconds User code lenght: 5 digits 26 bit wiegand output Buzzer disabled

# C. Audible Signal

1 short beep keypad powered and key presses
1 long beep data computing in programming
2 short beeps Entry or Exit from programming
4 short beeps data computing error

# D. Code Length

The user code must be in 4, 5 or 6 digits. All the keypad keys can be used to program a user code except the B key.

Enter the user code and then B to validate the code.

# E. Consumption

80mA in 12 VDC (permanent illuminated keys)

# II. PROGRAMMING

### A. Entry in programming

- 1. Turn off the power. Put the switch to ON. Put back the power.
- 2. Two beeps are emitted to confirm entry in programming.

The command control of the buzzer is not possible in programming mode.

### B. Illumination duration

1. Enter in programming.



2. Enter A0 to program the illumination duration. One beep is emitted. Enter the time in seconds - 10 for 10 seconds to 99 for 99 seconds or enter 00 for a permanent illumination. One beep is emitted to confirm the illumination duration.

3. Remove the ST1 jumper. Two beeps are emitted to confirm exit from programming.

### C. Output format

- 1. Enter in programming.
- 2. Press A1 to enter in the output format menu. One beep is emitted.



Press 1 to select 26-bit wiegand output format Press 2 to select CDVI output format Press 3 to select ISO Track 2 output format

One beep is emitted to confirm programming.

3. Remove the ST1 jumper. Two beeps are emitted to confirm exit from programming.

### C. Code length

Enter in programming mode.



- Press A2 to enter in the code length setting menu. One beep is emitted. Press 4 for a 4-digit user code, press 5 for a 5-digit user code or press 6 for a 6-digit user code. One beep is emitted to confirm programming.
- 3. Remove the ST1 jumper. Two beeps are emitted to confirm exit from programming.
  - 4 beeps indicate a data computing error.

# D. Audible signal

The audible signal is always enabled in programming mode.

In factory default, the buzzer is disabled when pressing a key. To enable the buzzer:

1. Enter in programming mode.



- 2. Press A3. One beep is emitted. Press 0 to disable the audible signal. Press 1 to enable the audible signal. One beep is emitted to confirm programming.
- 3. Remove the ST1 jumper. Two beeps are emitted to confirm exit from programming.

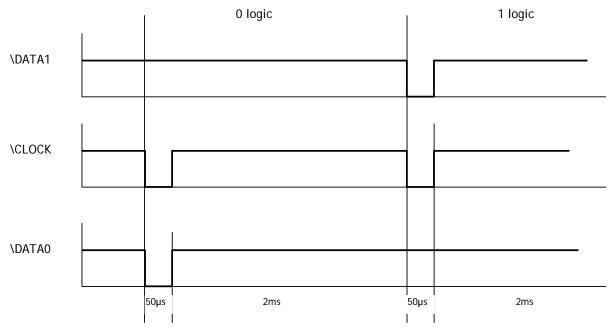
### E. External control of the buzzer

The buzzer can be activated from an external input. The control is done with a logic signal on the input.

Buzzer disabled Buzzer enabled Buzzer disabled

### F. 26-bit wiegand format

# Chronograms



### **Interfaçage**

The output format is 26-bit Wiegand (Signals: DATA1, DATA0 and CLOCK) Output signal in open collectors (pull up of 2.2K in +5V) 26-bit hexadecimal output format

The frame is made of 26-bit and built as follow: <u>First parity:</u> 1-bit - even parity for the first 12-bit <u>User Code</u>: 3 half of a byte represent the code entered Each byte is transferred from bit 7 to bit 0.

Second parity: 1-bit - odd parity for the last 12-bit

Bit 1	Bit 2 bit 25	bit 26
Even parity on bit 2bit13	Data (24 bits)	Odd parity on bit 14bit 25

Example a 4-digit code: 1350 then B

	1	0000	0000	0001	0011	0101	0000	1
Pa	arity 1	0	0	1	3	5	0	Parity 2

The code is transmitted in hexadecimal: 001350

Example a 5-digit code: 71350 then B

0	0000	0111	0001	0011	0101	0000	1
Parity 1	0	7	1	3	5	0	Parity 2

The code is transmitted in hexadecimal: 071350

Example a 6-digit code: 671350 then B

0	0110	0111	0001	0011	0101	0000	1
Parity 1	6	7	1	3	5	0	Parity 2

The code is transmitted in hexadecimal: 671350

Parity 1: 0 if the number of 1 in bit 2 to bit 13 is even 1 if the number of 1 in bit 2 to bit 13 is odd

Parity 2: 0 if the number of 1 in bit 14 to bit 25 is odd 1 if the number of 1 in bit 14 to bit 25 is even

### G. CDVI Format

This format is owned by CDVI. This format is compatible with other CDVI products (PROMI, UCA3).

### H. ISO 7811 Track 2 Format

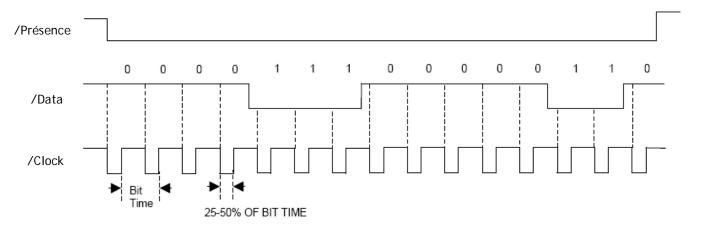


SS = start sentinel Hex B ES = end sentinel Hex F

LRC = Ou Exclusif de tous les caractères de la trame (including SS and ES)

# The code length is set at 8 digits:

In 4 digits - 00001234 In 5-digits - 00012345 In 6-digits - 00123456



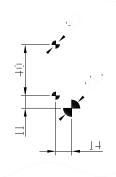
Each digit is made of 5 bits (4 bits data + 1 bit parity)

Characters	B4	В3	B2	B1	Parity
0	0	0	0	0	1
1	0	0	0	1	0
2	0	0	1	0	0
3	0	0	1	1	1
4	0	1	0	0	0
5	0	1	0	1	1
6	0	1	1	0	1
7	0	1	1	1	0
8	1	0	0	0	0
9	1	0	0	1	1
Α	1	0	1	0	1
B = SS	1	0	1	1	0
С	1	1	0	0	1
D = FD	1	1	0	1	0
E	1	1	1	0	0
F = ES	1	1	1	1	1

# **III. MOUNTING INSTRUCTIONS**

1

Drill (bit Ø5mm) 2 mounting holes (minimum depth 35mm) and the cable hole



2 Insert the S5 2 plastic anchors in the holes.

Mount the back plate with the M4x30 screws.

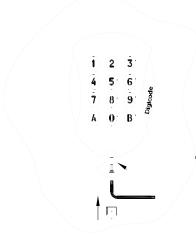


Insert the cable of the GALEO<sup>®</sup> inside to cable hole.

Place the GALEO<sup>®</sup> on the back plate and slide it from up to down. Make sure that the mounting bracket is properly set with the GALEO.



4 Use the M4x10 screw to close the keypad (T20 spanner). Place the screw cap.





To mount the remote controller on the wall use the plastic bracket.