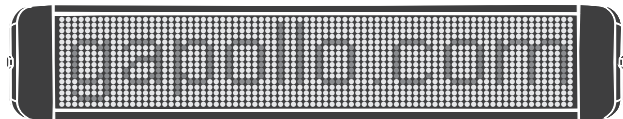
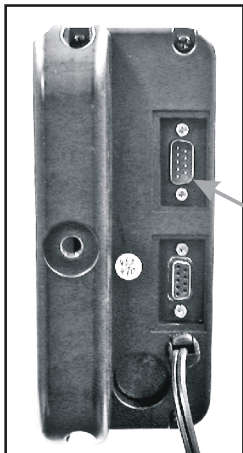


- **User Manual For LED Alpha Sign** •



GPollo
GOLD APOLLO CO., LTD.

Gold Apollo LED Sign Relay Output Pin Instruction

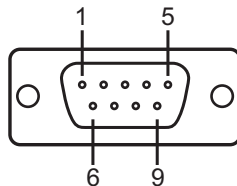


* **L**

RS-232-DB9 Male as Relay Output Pins

Pin No.	Signal
1	Normal Open
2	Normal Open
3	Normal Open
4	Common
5	Common
6	Common
7	Normal Close
8	Normal Close
9	Normal Close

The Total Max. Current $\leq 2A$



LED sign's Control Commands V2.00 (use for LED sign firmware V6.0 up)

Item	Features	Command	Parameters	Description
1	Timer display On/Off	GALEDTM=	ON or OFF	ON = Timer display enable , OFF = Timer display disable
2	Timer Date On/Off	GALEDDT=	ON or OFF	Date display ON or OFF
3	Timer Date Setting	GALEDDATE=	YYMMDD	YY= year from 0 to 99 , MM= month from 1 to 12, DD= day from 1 to 31
4	Timer Date mode	GALEDDTMD=	X	0 = DD-MMM-YY , 1 = MMMM DD,YY , 2 = MM/DD/YY , 3 = DD/MM/YY , 4= MM-DD-YY, 5 = DD-MM-YY, 6 = MM.DD.YY, 7 = DD.MM.YY, 8 = MM DD YY , 9 = DD MM YY
5	Timer Time Setting	GALEDTIME=	HHmmSS	HH= hour from 00 to 23 , mm = minute from 00 to 59 , SS = second from 00 to 59
6	Timer Month language of Date	GALEDLANG=	XXX	ENG = English , FRA= France
7	Timer Display Mode	GALEDTMD=	X	This control command will not work on LED Sign Type = A or B mode. 1 = Timer display after every message , 2=Timer display once after finished all messages
8	Timer Hour Type	GALEDSHTM=	12 or 24	24= 24 hours type(default) , 12=12 hours type with AM, PM indicator.
9	Timer display hold time	GALEDSHTM=	XXX	from 001 to 999 seconds
10	Buzzer On/Off	GALEDBZ=	ON or OFF	ON = Buzzer beep enable , OFF = Buzzer beep disable
11	Buzzer On Time	GALEDBZTM=	XXX	from 001 to 999 seconds
12	Buzzer music type	GALEDBZTY=	X	Music type from 0 to 9
13	Scroll Speed control	GALEDSPEED=	X	X = 1 (slowest) to 5 (fastest) , this scroll feature only active the message length more then LED sign display's character length. It will be setting to default value when the LED Sign Type command is changed.
14	Default message	GALEDMESG=	xxxxx...	It keep 50 characters for message to replace default message of "Gold Apollo LED signs moving display" , If use "GALEDTIME=HHmmSS"as the default message then the default message will show time information on the LED sign.
15	Message Counter	GALEDMGCT=	XX	01= only use one message slot for any capcode and function bits, 24 = each capcode and function will locate its message slot, AU= Auto can have 24 memory but does not care capcodes, this 24 memories will do FIFO action, it mean if It's memory full then oldest memory will move out memory.

16	Auto Clear delay time	GALEDCLRDY=	XXX	000= auto clear disable, delay time = 001 to 999 seconds, message will auto clear itself after delay time is time out.
17	Auto Clear Count times	GALEDCLRCT=	XXX	000= auto clear disable, display how many times = 001 to 999 times, message will auto clear itself after display times is time out.
18	Clear by "Reset" command	GALEDRESCM=	ON or OFF	ON = if the message have header or trailer with "reset" and space words then the same message will be cleared. The header format is "reset"+" "(space), the trailer format is " "(space) +"reset" . And the "reset" will do not care the lower or upper caps.
19	Time Stamp Mode	GALEDTMSM=	X	0 = Off , 1 = time stamp in the head of message , 2 = time stamp in the end of message , time stamp format is HH:MM (24 hours time format)
20	Non Scroll Hold time	GALEDMGTM=	XXX	from 001 to 999 seconds, this feature only active when the message length less then LED sign's character length , the default time is 3 seconds.
21	Delete All Messages	GALEDDELALL		This command will clear all messages then it will show the default message on the LED sign.
22	*2. LED Sign Type	GALEDTYPE=	X	1 = 1 line 2 = 2 lines A = 2 lines with timer and timer is on second line B = 2 lines with timer and timer is on first line a = 2 lines with default message and default message is on second line b = 2 lines with default message and default message is on first line
23	Message Display Sequence	GALEDSEQU=	X	0 = FIFO (First In First Out) 1 = LIFO (Last In First Out)
24	*2. Appear Message Mode	GALEDAPPM=	X	This feature only work for LED Sign Type = 1 or 2. 0 = Fly to Left (default) 1 = Enter to Right 2 = Extended to Bottom 3 = FLY from Top 4 = FLY from Bottom 5 = Raining 6 = Snow Flakes 7 = Appear right away 8 = Animation 1

*2. Only for AS112, AS122, AS212 or AS222.

25	* 2. Disappear Message Mode	GALEDDISM=	X	This feature only work for LED Sign Type = 1 or 2. 0 = Continue (default) 1 = Run to Left 2 = Curtain Right 3 = Curtain Down 4 = Fly Away 5 = Sink 6 = Flash & Invert 7 = Vapor 8 = Dissolve 9 = Flash A = Disappear right away B = Animation 1
26	* 3. Default Color	GALEDDISM=	X	Color definition : 1= Red color, 2= Green color. 3= Orange color
27	* 3. Priority Message Color	GALEDDISM=	X	Color definition : 0: Disable, 1= Red color ,2= Green color. 3= Orange color If priority color is disable then it will display default color.
28	* 3. Capcode Color Group A	GALEDDISM=	XXX	Color definition : 0: Disable, 1= Red color ,2= Green color. 3= Orange color XXX is capcode 1, 2, 3, 4 for flex system XXX is function code A, B, C, D of capcode 1 for POCSAG system
29	* 3. Capcode Color Group B	GALEDDISM=	XXX	Color definition : 0: Disable, 1= Red color ,2= Green color. 3= Orange color XXX is capcode 5, 6, 7, 8 for flex system XXX is function code A, B, C, D of capcode 2 for POCSAG system
30	* 3. Capcode Color Group C	GALEDDISM=	XXX	Color definition : 0: Disable, 1= Red color ,2= Green color. 3= Orange color XXX is capcode 9, 10, 11, 12 for flex system XXX is function code A, B, C, D of capcode 3 for POCSAG system

***2.** Only for AS112, AS122, AS212 or AS222.

***3.** Only for AS210(R), AS220(R), AS212(R), or AS222(R).

31	* 3 Capcode Color Group D	GALEDDISM=	X	Color definition : 0: Disable, 1= Red color ,2= Green color. 3= Orange color XXX is capcode 13, 14, 15, 16 for flex system XXX is function code A, B, C, D of capcode 4 for POCSAG system
32	* 3 Capcode Color Group A	GALEDDISM=	XXX	Color definition : 0: Disable, 1= Red color ,2= Green color. 3= Orange color XXX is unused for flex system XXX is function code A, B, C, D of capcode 5 for POCSAG system
33	* 3 Capcode Color Group B	GALEDDISM=	XXX	Color definition : 0: Disable, 1= Red color ,2= Green color. 3= Orange color XXX is unused for flex system XXX is function code A, B, C, D of capcode 6 for POCSAG system
34	* 3 Message Color Command	GALEDDISM=	ON or OFF	If Message Color Command is ON then message color can be changed in the message specific date. <*CG1*>= Red color, <*CG2*>= Green color, <*CG3*>= Orange color. The message will change color after Message Command Color. And this color changed only work on this message.

LED Sign Priority Message features V1.12

35	* 1 Priority Message	GALEDPRIM=	X	0 : Off
				1 : Priority Message On without Relay and Priority Message Capcode without Relay
				2 : Priority Message On with Relay On and Priority Message Capcode without Relay
				3 : Priority Message On without Relay and Priority Message Capcode with Relay On
				4 : Both Priority Message and Priority Message Capcode with Relay On

***3** Only for AS210(R), AS220(R), AS212(R), or AS222(R).

***1** Only for AS110R , AS112R , AS120R , AS122R, AS210R, AS212, AS220R, AS222R.

36	* 1 Priority Message Relay On time	GALEDRLYTM=	XXX	0 – 999 seconds
37	* 1 Priority Message Capcode selection	GALEDPRICAP=	XXXXXX	000000 – FFFFFFFF , this code is only valid 0 - 9 and A-F, that will be a hex code for the capcode select for priority message. And the bit = 1 then the priority message is enabled.
				Flex system will only work four codes for the 16 capcodes, and POCSAG system will work for six codes for 24 capcodes.
				Flex system : Highest bit will be a capcode 1, next highest bit is capcode 2 ... so the capcode 16 is fourth code lowest bit.
				POCSAG system : Highest bit will be a capcode 1 function code = 00, next highest bit is capcode 1 function code = 01, next highest bit is capcode 1 function code = 10, next highest bit is capcode 1 function code = 11 ... so capcode 6 function code = 11 is the lowest bit.
38	* 1 Mail Drop Capcode selection	GALEDMDCAP=	XXXXXX	000000 – FFFFFFFF , this code is only valid 0 - 9 and A-F, that will be a hex code for the capcode select for Mail Drop message. And the bit = 1 then the Mail Drop message is enabled.
				Flex system will only work four codes for the 16 capcodes, and POCSAG system will work for six codes for 24 capcodes.
				Flex system : Highest bit will be a capcode 1, next highest bit is capcode 2 ... so the capcode 16 is fourth code lowest bit.
				POCSAG system : Highest bit will be a capcode 1 function code = 00, next highest bit is capcode 1 function code = 01, next highest bit is capcode 1 function code = 10, next highest bit is capcode 1 function code = 11 ... so capcode 6 function code = 11 is the lowest bit.
				If Mail Drop capcode is enabled one then the message counter will be decreased one.

***1** Only for AS110R , AS112R , AS120R , AS122R, AS210R, AS212, AS220R, AS222R.

39	* 1. Mail Drop Time Out Off	GALEMDTOOF=	ON or OFF	ON = Mail Drop Time Out off OFF = Mail Drop Time Out is same as normal message
40	* 1. Priority Message Counter	GALEDPRICT=	X	X=1 to 5 , it can be selected priority message can display and store from 1 to 5 messages
41	* 1. Priority Message Clear	GALEDPICLR=	ON or OFF	ON = Priority message clear command is enabled then it will accept "CLEAR" air command to clear all priority messages. And the "CLEAR" will do not care the lower or upper caps.
42	* 1. Automatic Message Counter	GALEDAUCT=	XX	X=01 to 24, it allow user to select message counter at automatic message mode.
43	* 1. Priority Message auto clear delay time	GALEDPCLRDY=	XXX	000= Priority Message auto clear disable, delay time = 001 to 999 seconds, Priority Message will auto clear itself after delay time is time out.
44	* 1. Message Number of Sequence	GALEDMGNO=	ON or OFF	Message Number display = On or Off
45	* 1. Timer Hour Type	GALEDTMHR=	12 or 24	24= 24 hours type (default) , 12 = 12 hours type with AM , PM indicator.

***1.** Only for AS110R , AS112R , AS120R , AS122R, AS210R, AS212, AS220R, AS222R.

Control command instruction and Examples:

1: Timer display On/Off

GALEDTM=ON

Description: Timer display enables.

2: Timer Date On/Off

GALEDDT=OFF

Description: Date disable at timer display.

3: Timer Date Setting

GALEDDATE=061025

Description: The timer's date will set to 2006, Oct, 25

4: Timer Date mode

GALEDDTMD=5

Description: If the timer set to 2006, Oct, 25 then it will show **25-10-06** on the display.

5: Timer Time Setting

Timer Time Setting=061025

Description: The timer's time will set to 06:10AM 25 seconds

6: Timer Month language of Date

GALEDLANG=ENG

Description: If the timer set to 2006, Oct, 25 and Date mode set to DD-**MMM**-YY then it will show **25-OCT-06** on the display.

7: Timer Display Mode

GALEDTMD=1

Description: There are three messages then it will show as following,

Message 1 → timer display → Message 2 → timer display

→ Message 3 → timer display → Message 1... (repeat)

GALEDTMD=2

Description: There are three messages then it will show as following,

Message 1 → Message 2 → Message 3 → timer display

→ Message 1... (Repeat)

8: Timer Hour Type

GALEDTMHR=12

Description: The timer's hour type can be selected 12 hours.

The default type is 24 hours.

9: Timer display hold time

GALEDSHTM=005

Description: The timer's time will show and hold 5 seconds.

10: Buzzer On/Off

GALEDBZ=ON

Description: The Buzzer's Beep is enabled.

11: Buzzer On Time

GALEDBZTM=008

Description: The Beep time is selected to 8 seconds.

12: Buzzer music type

GALEDBZTY=0

Description: The Beep type is selected to 0.

13: Scroll Speed control

GALEDSPEED=5

Description: The Scroll Speed is selected to fastest. Please note the scroll feature only work when your message more LED sign's character length. If you LED sign's length is 20 characters then your message must more 21 characters then scroll feature will work otherwise the message will be hold and the hold time define by command item 19 (Non Scroll Hold time).

14: Default message

GALEDMSG=Gold Apollo default message

Description: The default message will be replaced to "**Gold Apollo default message**". This message will show when you delete all messages.

GALEDMSG=GALEDTIME=HHmmSS

Description: The default message will be replaced to time information "**16:24:35**". This time information will show when you delete all messages.

15: Message Counter

GALEDMGCT=XX

Description: If the LED sign is deleted all messages and do a following paging examples : (it is used Message Display Sequence = LIFO)

Step 1. Paging capcode 1 tone A : message 1

GALEDMGCT=01 (this is the command's selection)

GALEDMGCT=24 (the last message will show first)

GALEDMGCT=AU (the last message will show first)

message 1 → ... repeat (this is the message display on the LED sign)

Step 2. Paging capcode 1 tone B : message 2

GALEDMGCT=01

message 2 → ... repeat

GALEDMGCT=24

GALEDMGCT=AU

message 2 → message 1 → ... Repeat

Step 3. Paging capcode 1 tone C : message 3

GALEDMGCT=01

message 3 → ... repeat

GALEDMGCT=24

GALEDMGCT=AU

message 3 → message 2 → message 1 → ... repeat

Step 4. Paging capcode 1 tone D : message 4

GALEDMGCT=01

message 4 → ... repeat

GALEDMGCT=24

GALEDMGCT=AU

message 4 → message 3 → message 2 → message 1 → ... Repeat

Step 5.Paging capcode 1 tone A : message 5

GALEDMGCT=01

message 5 → ... repeat

GALEDMGCT=24

message 5 → message 4 → message 3 → message 2 → ... repeat

GALEDMGCT=AU

message 5 → message 4 → message 3 → message 2 →

message 1 → ... repeat

Step 6.Paging capcode 1 tone B : message 6

GALEDMGCT=01

message 6 → ... repeat

GALEDMGCT=24

message 6 → message 5 → message 4 → message 3 → ... repeat

GALEDMGCT=AU

message 6 → message 5 → message 4 → message 3 →

message 2 → message 1 → ... Repeat

16: Auto Clear delay time

GALEDCLR DY=030

Description: The receiving message will show 30 seconds then it will be clear itself.

17: Clear Count times

GALEDRESCM=030

Description: The receiving message will show 30 times then it will be clear itself

18: Clear by "Reset" command

GALEDRESCM=ON

Description: The Clear by "Reset" command is enabled. So you can do clear message as following,

Example 1: Message content is "this is a test"

[reset this is a test](#)

This head reset command will clear the message.

Example 2: Message content is "this is a test"

[this is a test RESET](#)

This reset command at trailer will clear the message.

19: Time Stamp Mode

GALEDTMSM=1

Description: The receiving message will be added time stamp in the head of message.

Example: Message content is "this is a test" , Time is 17:58.

LED Sing will show it as [17:58 this is a test](#).

20: Non Scroll Hold time

GALEDMGTM=005

Description: The non scroll message will show and hold 5 seconds. Please also refer command item 12 (Scroll Speed control).

21: Delete All Messages

GALEDDELALL

Description: It will delete all messages and it will show the default message on LED sign. Please also refer command item 13 (Default message).

22: LED Sign Type

GALEDTYPE=2

Description: The LED Sign type will change to 2 lines display mode.

23: Message Display Sequence

GALEDSEQU=1

Description: The LED Sign will display message as first in first out mode.

24: Appear Message Mode

GALEDAPPM=8

Description: The LED Sign will display an animation first then display the message.

25: Disappear Message Mode

GALEDDISM=B

Description: The LED Sign will display an animation follow the message.

26: Default color Type

GALEDCOLOR=1

Description: The LED Sign will display message in Red color.

The number 1= Red color, 2= Green color, 3= Orange color.

27: Priority message color Type

GALEDPCOLOR=1

Description: The LED Sign will display priority message in Red color.

The number 1= Red color, 2= Green color, 3= Orange color.

28: Capcode A color Type

GALEDCAPCLA=0123

Description: The LED Sign will display message color by sapcode ID.

The number sequence use for ID 1, 2, 3, 4, The number 0= disable(use default color) ,1= Red color, 2= Green color, 3= Orange color. So this case will display ID 1 as default color, ID 2= red color, ID 3= green color, ID 4= orange color.

29: CapcodeB color Type

GALEDPCOLOR=1123

Description: The LED Sign will display message color by sapcode ID.

The number sequence use for ID 5, 6, 7, 8, The number 0= disable(use default color) ,1= Red color, 2= Green color, 3= Orange color. So this case will display ID 5 as red color, ID 6= red color, ID 7= green color, ID 8= orange color.

30: Capcode C color Type

GALEDPCOLOR=1111

Description: The LED Sign will display message color by sapcode ID.

The number sequence use for ID 9, 10, 11, 12, The number 0= disable(use default color) ,1= Red color, 2= Green color, 3= Orange color.So this case will display ID 9 as red color, ID 10= red color, ID 11= green color, ID 12= orange color.

31: Capcode D color Type

GALEDPCOLOR=2222

Description: The LED Sign will display message color by sapcode ID.

The number sequence use for ID 13, 14, 15, 16, The number 0= disable(use default color) ,1= Red color, 2= Green color, 3= Orange color.So this case will display ID 13 as green color, ID 14= green color, ID 15= green color, ID 16= green color.

32: Capcode E color Type

GALEDPCOLOR=3333

Description: The LED Sign will display message color by sapcode ID.

The number sequence use for ID 13, 14, 15, 16, The number 0= disable(use default color) ,1= Red color, 2= Green color, 3= Orange color.So this case will display ID 13 as green color, ID 14= green color, ID 15= green color, ID 16= green color.

33: Capcode F color Type

GALEDPCOLOR=0000

Description: The LED Sign will display message color by sapcode ID.

The number sequence use for ID 21, 22, 23, 24, The number 0= disable(use default color) ,1= Red color, 2= Green color, 3= Orange color.So this case will display ID 21-24 asdefault color.

34: Message color command

GALEDPMSGCL=NO

Description: The LED Sign Message color command is turned on then the color can be selected by specific message command.

Example 1 : Default color= Red color, message="This is a test <*CG2*>

Message color command"

The LED Sing display will show → This is a test Message color command

Example 2 : Default color= Orang color, message="This is a test <*CG2*>

Message <*CG3*>color<*CG3*> command"

The LED Sing display will show → This is a test Message color command

35: Priority Message

911 as Priority Message prefix code. it will not show 911 on the display. but it also can be used the RESET control command to cancel this priority message in the AS control commands. The other way is used a new "CLEAR" priority message air command to clear it or a message time out feature be implemented. The non-priority message auto clear timer/counters are on hold while priority messages are being displayed.

36: Priority Message Relay On time

Both Priority Message and Priority Message Capcode features also can be enabled an external relay ON for a duty time.

37: Priority Message Capcode selection

Priority Message by Capcode will be accepted for the AS110R , AS112R , AS120R , AS122R.

38: Mail Drop Capcode selection

Mail Drop capcode selection. it can be selected capcode as a mail drop and it only has one message for the capcode. and this feature only can be used for the Message Counter = Auto.

39: Mail Drop Time Out Off

Mail Drop message can be selected a Time Out feature off. that will can used same time out as normal capcode or it will turn off the time out feature !

40: Priority Message Counter

Priority Message can be extended to 5 messages.

41: Priority Message Clear

Priority Message also support an easy "CLEAR" air command for user to use.

42: Automatic Message Counter

Add a selection of 1 to 24 number for automatic message mode.

43: Priority Message auto clear delay time

Priority Message auto clear feature will have an independent time out.

44: Message Number of Sequence

Message Number can be selected on or off.

45: Timer Hour Type

Timer hour type can be selected 12 or 24 hours.



User Manual For LED Alpha Sign