AP Series of LEDs Bargraph Meter AP1101FC314Z



Single Bargraph Indicator Meter With Alarm Control

FEATURES

- Display widely by raster with colorful and fine lines.
- Embedded structure meter so then can be installed easily.
- Used in measure and display the value of DC current, voltage, rheostat or thermocouple.
- Wide range of power supply and low power consumption.
- Highlight cursor segments and output alarm signal.
- Alarm point can set exit retardation.

Http://www.barmeter.com

DESCRIPTIONS

- AP1101FC314Z D1 NaHN 7011 Current, Voltage, Rheostat, Thermocouple • Input Type :
- Max. Input Over Capability: 2×input value
- Input Resistance Via Voltage Meter: >**500K**Ω
- <**50** Ω Resistance Via Current Meter:
- Measuring Accuracy : 1. Current, voltage \pm 0.5% F.S. \pm 1Segment 2.Rheostat \pm 1.0% F.S. \pm 1 Segment 3.Thermocouple \pm 1.0% F.S. \pm 1Segment

1.0 mm

- 101 Segments Effective Beam Number:
- Segment Pitch :
- Zero and Full Adjust Ratio: ±10~20%
- D1:DC 10~28V D2:DC 36~72V Power Supply And Range: A1: AC 86~264V
- **Power Consumption:** ≤700 mW (F.S.)

- - H: Have SP3's Relay Output N: None a: Normally Open SP2's Relay Output b: Normally Closed N: None a: Normally Open SP1's Relay Output b: Normally Closed N: None D1: DC10~28V Power Supply D2: DC36~72V A1: AC86~264V

Model

Order Code

SP4's Relay Output

(View 'ORDER CODE ')

a: Normally Open

b: Normally Closed

N: None

ORDER CODE

Bar color	0~5V	1~5V	0~10mA		4~20mA	0~10V
Red	7011	7012	7013		7014	7015
Green	7021	7022	7023		7024	7025
Yellow	7031	7032	7033		7034	7035
Bar color	Rheostat			Thermocouple (K)		
Red	7016			7017K		
Green	7026			7027K		
Yellow		7036		7037K		

Environment: -30℃~70℃ & <85%RH

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MODEL AND ORDERING CODE

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CUTOUT SIZE

DIMENSION





AP

CONNECTION DIAGRAM



CONNECTION DIAGRAM

NO.	Symbol	I/O	Function	
1	Vout (H)	0	DC 24V Output(+) (Optional)	
2	Vout (L)	0	DC 24V Output (-) (Optional)	
5	NO3	0	Normally Open for SP3	
6	NC3	ο	Normally Closed for SP3	
7	СОМЗ	0	Common for SP3	
8	NO4/NC4	0	Normally Open or Normally Closed for SP4	
9	COM4	0	Common for SP4	
10	FG	Т	Ground	
11	PS+/L	Ι	DC Power Positive or AC Power L	
12	PS-/N	I	DC Power Negative or AC Power N	
19	IN (L)	Y	Signal Input Low	
20	IN (H)	I	Signal Input High	
21	СОМ1	0	Common for SP1	
22	NO1/NC1	0	Normally Open or Normally Closed for SP1	
23	NO2/NC2	0	Normally Open or Normally Closed for SP2	
24	COM2	0	Common for SP2	

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Step C

Press and hold the P button for 3 seconds or no key operation for 10 seconds to enter into the measurement state.



3. The retardation of alarm exit and setting

3. 1 Retardation of alarm exit

The bar will blink and the LED annunciators will activate to alarm at the moment of the measured value out of range of the set point. Recovery from the alarm status is 'alarm exit'.

The alarm exit can delay some value to operate, and that is the 'retardation of alarm exit'. Each cursor has 4 grades retardation to choose. They can be set separately according to the needs.

3.2 Retardation of alarm exit setting

The module will enter into the Retardation of Alarm Exit Setting state when press and hold the P and A button for 3 seconds in the measurement state.



* They are 0th, 1st, 2nd, 3rd grade, each grade represent the retardation of one segment, 0th grade means alarm exit without delay.

Step B

Press the P button to switch the setpoint which need to set. The toppest segment of selected part will blink

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Press the (A) or (7) button to elevate or reduce grades.





Example

The retardation of SP1 and SP4 is on the 3rd grade, SP2 is on the 0th grade, SP3 is on the 2nd grade.

Step C

Press and hold the P button for 3 seconds or no key operation for 10 seconds to enter into the measurement state.



4. Measure and Control Output

In the measurement state, the bargo up and down in accordance with the input analog signal. When the measured value out of range of the setpoint, meter will enter into the alarm state.

In the alarm state, the bar will blink, the relevant LED annunciators will bright on and the relevant relay will activate.



Input signal higher than SP4 Input signal lower than SP2

5. Return to the default state

The meter will ready to restore default state when press the P button and turn on the power simultaneously. Meanwhile, the whole bar will light up and blink. Then press the
button for 3 seconds, system will return to the default state.(The meter will quit and go into the measurement state if there are no key operate for 10 seconds.) The default state is that the brightness of bar is on the 4th grade, four cursors located on 15th, 25th, 75th and 85th, retardation of alarm exit are all on the 0th grade.



default state

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