VF Series of LEDs Bargraph Meter Modules

## PPM130P-8712S   30 Segments Fixed Color Audio Level Meter Module

VF
S

SUMMARIZE

VF series PPM LED bargraph meter modules can accept and interpret audio signal and programme signal which is transmitted by lines and generate audio level for display. The module can achieve PPM peak programme level meter's bar display or dot display and level's peak hold is optional. Sensitivity of transmission channel can be adjusted by the parts on module, so display's dynamic range can be adjusted easily.

Audio input can connect the signal to the preamplifier (circuit) or power amplifier output port by PH port connector or other two connectors. The signal is sent to the LED bar to display after peak detection, transfer amplification and processed by software. Because of wide impedance match range, the module can be widely used in the volume display of audio system's audio output, sound console output, programme signal transmitted by lines, volume output by power amplifier and the peak programme level in the process of programme recording. It can monitor the peak level of the signal well, in case of the audio system overmodulation or overload.

The module has wide range power supply, low power consumption. The bargraph can be a single color, such as red, green, yellow etc. or can be two or more colors to display separately, which represent different function region and improve the visual effect of programme.

port type:A

or

port type:B

or

Accessory:K350-4

port type:C
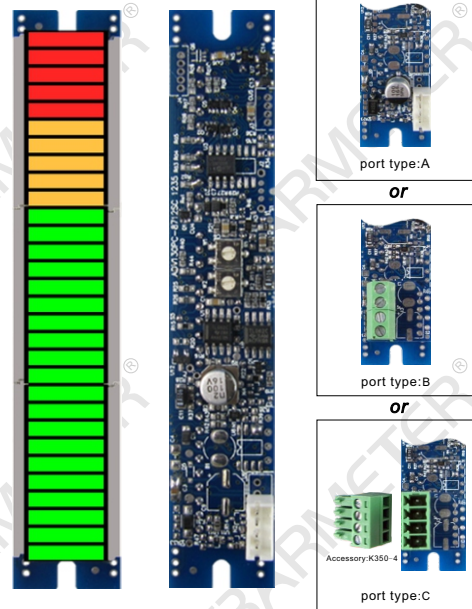
Http://www.barmeter.com

■ DESCRIPTIONS

- **Input Impedance:** 200kohm,balanced / 100kohm,unbalanced
- **Output Level For '0' Indication:** +6dB(at default state)*
- **Input Range:** -40dB~+3dB(at default state)
- **Amplitude-Frequency Characteristic:** 1dB±1segment [31.5Hz~16KHz]
- **Sensitivity Adjustment Range:** 3 dB
- **Response Time:** 10 ms
- **Return Time:** 1.5 s
- **Peak Hold Time:** 2 s
- **Peak Return Time:** 3 s
- **Effective Beam Number:** 30 segments
- **Bargraph Length:** 87 mm
- **Bargraph Width:** 12 mm
- **Active Area:** 12x88.9 mm
- **Segment Pitch:** 3.0 mm
- **Power Supply and Range:**
  - Non-isolated: Normal: DC5V±10% Optional: DC12V（10~15V） DC24V（20~28V）
  - Isolated: DC5V±5%, DC12V±5%, DC24V±5% Insulating Intension: DC1000V 1min
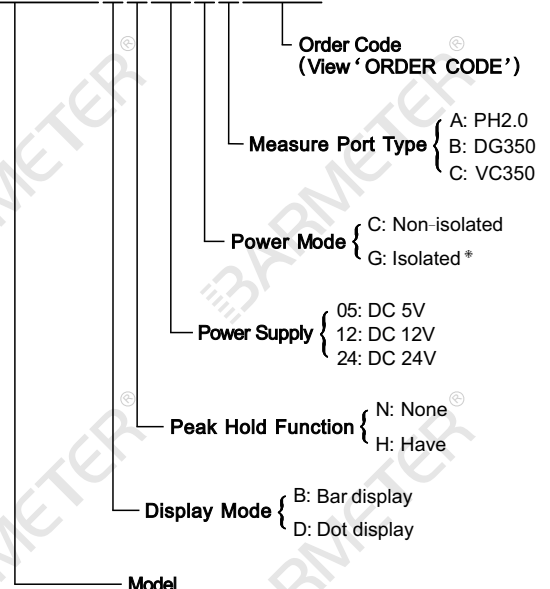- **Power Consumption:** 360mW(F.S.)
- **Environment:** −30 ~ 70℃ & ＜85%RH

* default state: the 26th segment is '0' reference indication, reference voltageis 1.55V(+6dB), dB is the decibel until which take 0.775V as parameter value.

■ ORDER CODE

Bar Color	Red	Green	Yellow	20Green+5Yellow+5Red
Order Code	7011	7021	7031	7041

■ MODEL AND ORDERING CODE

PPM130P-8712S D N 05 C A 7041

- **Order Code** (View 'ORDER CODE')
- **Measure Port Type** { A: PH2.0 B: DG350 C: VC350 }
- **Power Mode** { C: Non-isolated G: Isolated * }
- **Power Supply** { 05: DC 5V 12: DC 12V 24: DC 24V }
- **Peak Hold Function** { N: None H: Have }
- **Display Mode** { B: Bar display D: Dot display }
- **Model**

❈ When choose isolated power mode, signal's unbalanced input cannot be used.

■ DIMENSION AND LOCATION OF THE PORT

● MODULE

Unit:mm

105.0
88.9
86.8

18.0
3.2
12.0
14.0

Segment 1 Pitch=3 Segment 30

1.6
10.3
3.4
0.5 89.7 0.5
22max.*

98.0（recommendation）

1 2 3 4 J1

19.0

Adj.zero Adj.sensitivity

✱ When choose measure port type A and isolated power supply.
※ When choose measure port type B (or C) and isolated power supply.

19max
port type:A

28max
port type:B

30max.※
port type:C
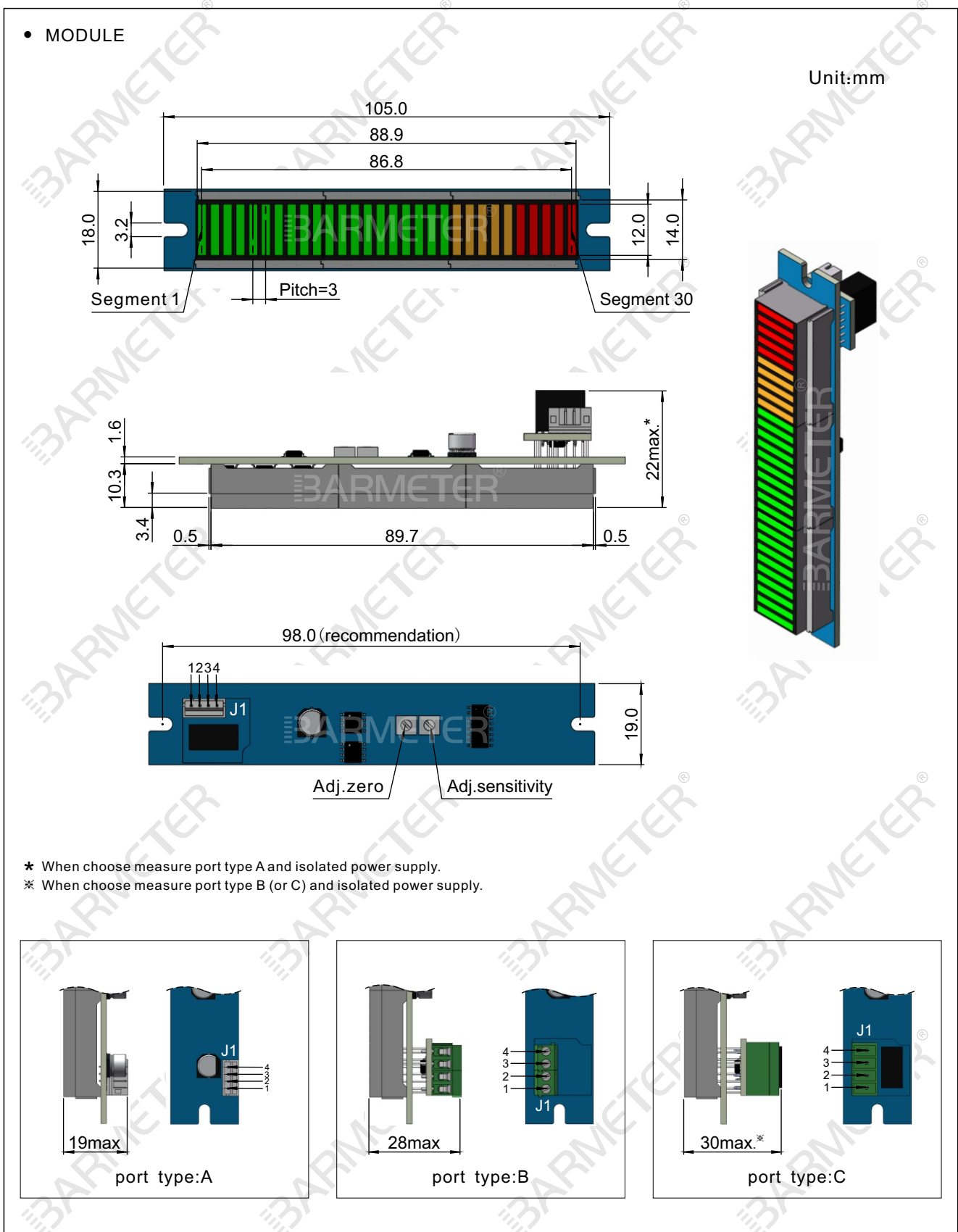
■ PORT(J1) DEFINITION AND OPTIONS

Pin No.	Symbol	Wire color	Definition
1	PS(−)	Black	Power Supply Negetive
2	IN(C)	Blue	Audio Input Cold Side
3	IN(H)	Yellow	Audio Input Hot Side
4	PS(+)	Red	Power Supply Positive

• CONNECTOR (Accessories for port type A)

WPH-204L25-1

No.1   5.0 mm   Twist

To J1 →

250mm
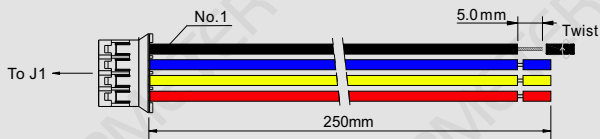
• AMPHENOL CONNECTOR (Accessories for port type C)

K350-4

15.6   15.0

7.2   11.0

1

Unit:mm

• UNBALANCED INPUT CONNECTIONS

Power Supply

J1

4 PS+
3 IN(H)
2 IN(C)
1 PS−

Hot Side Input   Cold Side Input
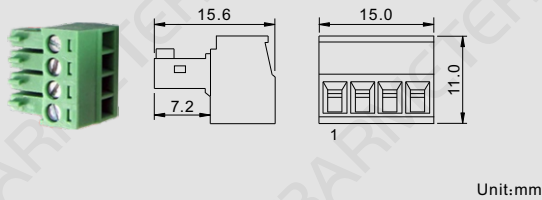
■ APPLICATION EXAMPLES

• BALANCED INPUT CONNECTIONS

Power Supply

J1

4 PS+
3 IN(H)
2 IN(C)
1 PS−

Hot Side Input   Cold Side Input
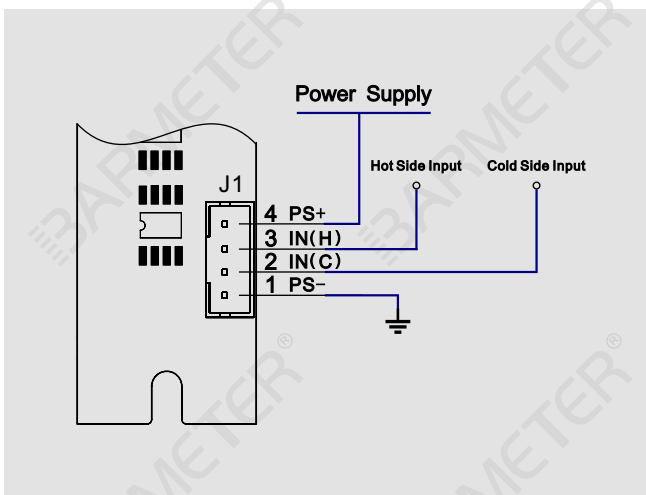
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BARMETER® **Barmeter Electronics Co.,Ltd.**   TEL: 86-21-68065675 FAX: 68065673   Http://www.barmeter.com
No.5998 Yanggao Rd(S).Shanghai Email: sales@barmeter.com