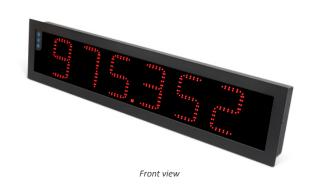
B46-P for Process signals



Large format meter with 6 digits and 100 mm digit height, for reading up to 50 meters for industrial applications. To measure process signals in mA and Vdc. Versatile and configurable instrument. Provides excitation voltage to power-up the sensor. Front keypad for easy access to the configuration menu and connection for remote keypad. Two universal high and low power supply options for AC and DC. Optional output and control modules for relay output, transistor output, SSR control, analog output retransmission and communications for Modbus RTU and RS-485 ASCII protocols. Sturdy metallic housing with full IP65 protection, for panel mount, wall mount or hanging mount.



Technical specifications

Reading

Digits 6
Reading 999999 / -199999
Decimal point configurable
Led color red or green
Digit height 100 mm
Type of digit 7 segment
Angle of vision 1209

Input signal

Signal ranges 4/20 mA, 0/10 Vdc, ± 20 mA, ± 10 Vdc, ... Excitation voltage ± 20 Vdc, ± 15 Vdc, ± 10 Vdc, ± 5 Vdc (max. 35 mA)

 Accuracy
 0.05% F.S. ±1 digit

 Offset drift
 10 ppm/°C

 Span drift*
 25 ppm/°C

*span drift value includes offset drift

relays, analog output, serial communications, ...

3 button front keypad (connection for remote keypad)

Readings 15 readings / second
Refresh 15 refresh / second

Response time <120 mSec. (0 % to 99 % signal) Input impedance 11 Ohm in mA, 932 KOhm in Vdc

Signal wire diameter max. 0.5 mm²

Outputs and configuration

Output and control options Configuration **Power**

Power 'H' 85 to 265 Vac and 120 to 370 Vdc (isolated 2500 Vac)

Power 'L' 11 to 36 Vdc (isolated 1500 Vdc)

Consumption <5.5 W (meter only)

<7.0 W (meter with options) max. 2.5 mm²

Power wire diameter

Mechanical

Housing metallic (textured black painted iron)

Front filter methacrylate
IP protection full IP65 housing
Connections cable gland output

internal plug-in screw terminals

Weight <4500 grams

Mounting panel, wall, hanging

Front size 740 x 166 mm

Panel cut-out 722 x 148 mm

Deep 80 mm (including terminals)

Operating temperature 0 to 50 °C
Storage temperature -20 to 70 °C



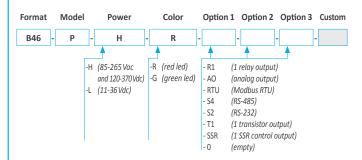








Order reference



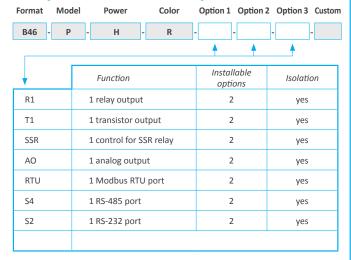


Rear view

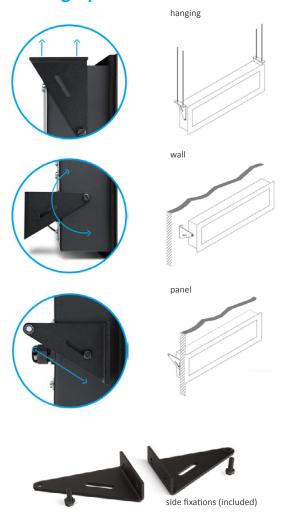




Output and control options



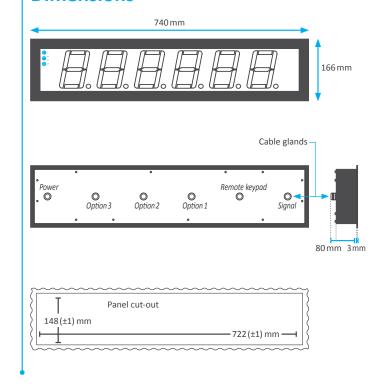
Mounting options



Functions included

'Fast access' menu a single press on the front keypad gives access to alarm setpoint modification, memories, . Segment linearization...... up to 20 segments for linearization of signals from irregular shaped volumes, tanker ships, .. recursive filters for noisy signals, optional reading in predefined steps, configurable fixed digits, ... 'On power-up' function protects systems at cold start-up. Alarms with one or two setpoints, independent activation and deactivation delays, hysteresis, optional manual deactivation of the relay. Inverted relay for security applications $\mbox{\bf 'Field correction'}\mbox{ function}\dots\mbox{ for fast and easy offset corrections when installing}$ on the field. for troubleshooting purposes, it displays the actual 'Measure' function signal at input terminals, directly in mA or Vdc, without scaling. 'Tare' function..... for weight applications. 'Peak & hold' function for test-break applications. Brightness 5 levels of brightness intensity. Memory..... maximum, minimum Password blocks access to configuration menu.

Dimensions









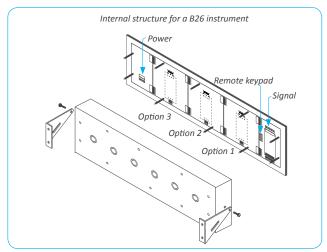


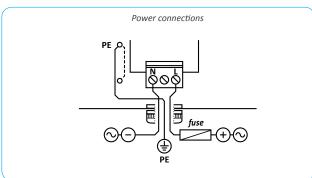


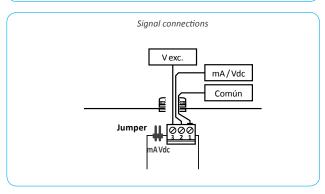
Sales: +44 (0) 1273 570 220 Website: www.amplicon.com Email: sales@amplicon.com

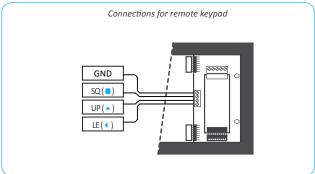


Connections













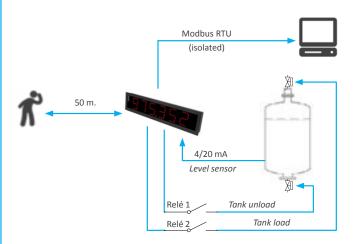






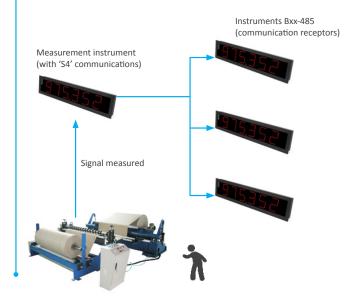
Example of application with control

Reading of the liquid level within a tank with irregular shape. Signal is taken from a pressure probe. Instrument provides two relay outputs to control to control the liquid load and unload electrovalves of the tank. Additionally, the measured values are retransmitted to a remote data storage center (SCADA or PLC) via Modbus RTU.



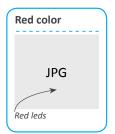
One measure, multiple information points

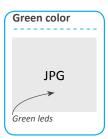
The large format meters from Series B can measure a wide variety of signals, and can integrate multiple output and control options. Option 'S4' for communications can be configured to transmit the measure directly to remote information points.

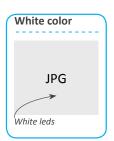




Other options







Cable output JPG Preinstalled cable, 2 meters

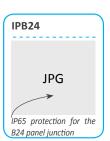
Others formats within the Series B

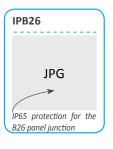


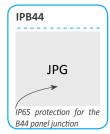
	Digit height	Digits	Reading distance
Format B24	60 mm	4	up to 25 meters
Format B26	60 mm	6	up to 25 meters
Format B44	100 mm	4	up to 50 meters
Format B46	100 mm	6	up to 50 meters

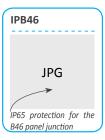
Accessories







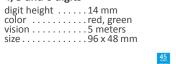




Other process meters



4, 5 and 6 digits





Series K			
Further view			
digit height 20 mm color red vision 8 meters size 96 x 48 mm			





digit height 14 mm
color red, green
vision 5 meters
size72 x 36 mm













Sales: +44 (0) 1273 570 220 Website: www.amplicon.com Email: sales@amplicon.com