# B44-232 RS-232 ASCII repeater



Large format meter with 4 digits and 100 mm digit height, for ? reading up to 50 meters for industrial applications. Repeater for ASCII protocol over RS-232 bus. Versatile and configurable instrument, with local or remote alarm control, 'watchdog' and 'bus activity' functions. 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**

Digits 9999 / -1999 Reading Decimal point configurable Led color red or green 100 mm

Digit height 7 segment Type of digit Angle of vision 120º

Signal

ASCII Protocol Bus RS-232

repeater for ASCII code Function Speed 38.400 bps to 600 bps Data format 8n1, 8e1, 8o1, 8n2

Addresses 1 to 31 ('daisy-chain' connections) not included

Bus terminator

Watchdog configurable from 1 to 120 seconds

Signal wire diameter max. 0.5 mm<sup>2</sup>

Outputs and configuration

Output and control options relays, analog output, serial communications, ...

Configuration 3 button front keypad (connection for remote keypad) 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 <5.25 W (meter only) <6.75 W (meter with options)

Power wire diameter max. 2.5 mm<sup>2</sup>

Mechanical

Housing metallic (textured black painted iron)

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

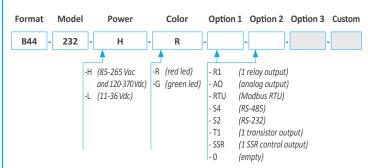
internal plug-in screw terminals

Weight <2500 grams panel, wall, hanging Mounting Front size 542 x 166 mm 524 x 148 mm Panel cut-out

80 mm (including terminals)

0 to 50 ºC Operating temperature -20 to 70 ºC Storage temperature

#### Order reference



\* Option 3 available with formats B26 and B46



Rear view













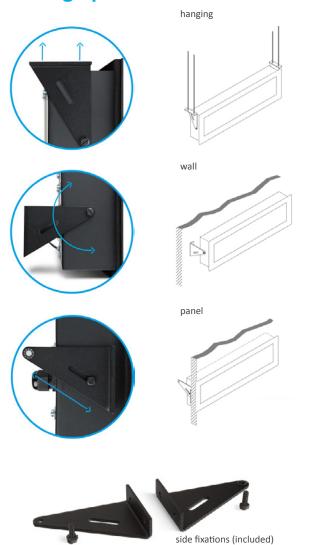




# **Output and control options**

Format Mod	del Power Color	Option 1 Option 2	2 Option 3 Custom	
B44 - 23	2 - H - R	-	-	
<b>↑ ↑</b>				
<u> </u>	Function	Installable options	Isolation	
R1	1 relay output	2	yes	
T1	1 transistor output	2	yes	
SSR	1 control for SSR relay	2	yes	
AO	1 analog output	2	yes	
RTU	1 Modbus RTU port	2	yes	
S4	1 RS-485 port	2	yes	
S2	1 RS-232 port	2	yes	
	Option 3 available with formats B26 and B46			

# **Mounting options**



#### **Functions included**

'Bus activity' . . . . . . . function detects electrical activity on the bus. Useful for troubleshooting.

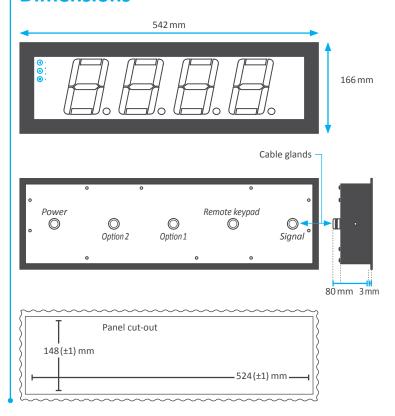
'Fast access' menu . . . . . a single press on the front keypad gives access to

 $\label{the:continuous} the instrument address or alarm setpoint. \\ \mbox{`On power-up'} function . . . . . protects systems at cold start-up.$ 

Password . . . . . blocks access to configuration menu.

Brightness . . . . . . . 5 levels of brightness intensity.

#### **Dimensions**











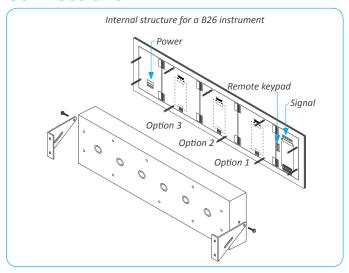


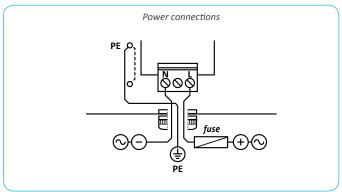
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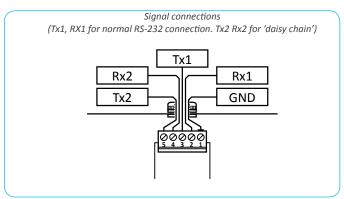
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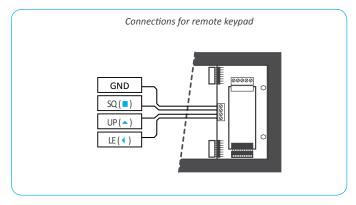


#### **Connections**



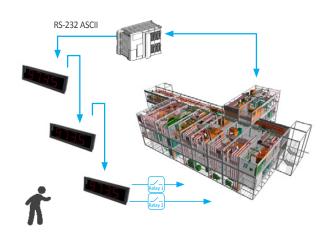






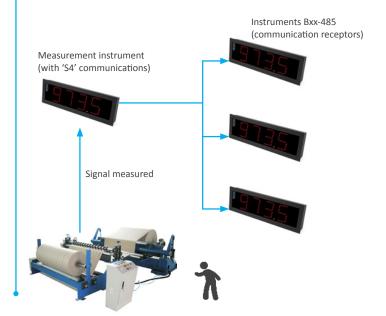


A manufacturing line is controlled from a centralized PLC or SCADA. The PLC receives and manages all the information related to process control. Some information is critical to the local operators, and it is communicated through the ASCII protocol repeaters. Critical information depends on each application, for example, production rates, total stop times, trouble codes, etc.



### 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.











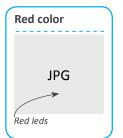


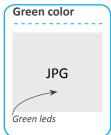
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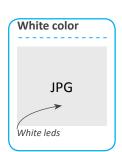
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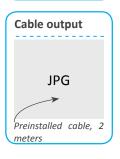


## **Other options**









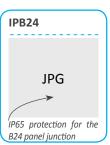
# <sup>o</sup> Others formats within the Series B

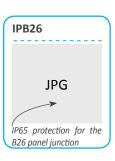


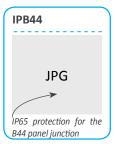
	Digit height	Digits	Reading distance
Format B24	60 mm	4	up to 25 meters
Format B26	60 mm	6	up to 25 meters
Format B44	100 mm	4	up to 50 meters
Format B46	100 mm	6	up to 50 meters

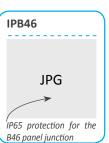
#### **Accessories**











# **Other RS-232 ASCII repeaters**

















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