B44-LC for load cells



Large format meter with 4 digits and 100 mm digit height, for reading up to 50 meters, for load cell signals at industrial applications. Versatile and configurable instrument, provides excitation voltage, 'tare' and 'auto-tare' functions, configurable acquisition speed and noise rejection to 50 and 60 Hz. Front keypad for easy access to the configuration menu and connection for remote keypad. Two universal power supply options for AC and DC. Optional relay outputs, transistor, SSR control, analog retransmission and communications for Modbus RTU and RS-485 ASCII protocols. Sturdy metallic housing with full IP65 protection, for panel, wall or hanging mount.

Technical specifications

Digits

Reading 9999 / -1999 Decimal point configurable red or green Led color Digit height 100 mm 7 segment Type of digit Angle of vision 120º

Load cells

Type of cells 1 mV/V, 2 mV/V, 3 mV/V and others Excitation voltage 5 Vdc or 10 Vdc, configurable (max. 140 mA)

Vexc. protection against shortcircuit

Maximum voltage at terminals 30 Vdc

1 to 8 load cells (powered 5 Vdc)

1 to 4 load cells (powered 10 Vdc) "(values calculated for standard 350 Ohms load cells. For cells with different impedance, the number is limited by the 140 mA available current)

Measure

Signal ranges (FS) 5 mV, 10 mV, 15 mV, 20 mV, 30 mV, 100 mV (internal)

Accuracy at 25 º 0.05 % FS 100 ppm/9 Thermal stability 20 MOhms Input impedance

Acquisitions / second* 15, 50 or 60 acquisition / second (configurable)

*(and refresh for alarms, analog outputs and bus)

Signal terminals plug-in screw terminals (pitch 3.81 mm) cable gland output PG9 (max. 8 mm diameter)

Wire section max. 0.50 mm²

Outputs and configuration

relays, analog output, serial communications, ... Output and control options 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) <3.0 W (meter only) Consumption

<5.0 W (meter with options) Power terminals

plug-in screw terminals (pitch 5.08 mm) cable gland output PG9 (max. 8 mm diameter)

max. 2.5 mm² (max. AWG14) Wire section

Mechanical

Housing metallic (textured black painted iron)

Front filter methacrylate full IP65 housing IP protection Weight <2500 grams Mounting panel, wall, hanging Front size (panel cut-out) 542 x 166 mm (524 x 148 mm) 80 mm (including terminals)

Operating temp. (storage) 0 to 50 °C (-20 to 70 °C) Packing box paperboard, 38 x 15 x 10 cm

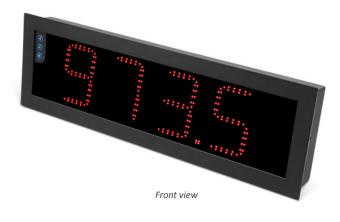




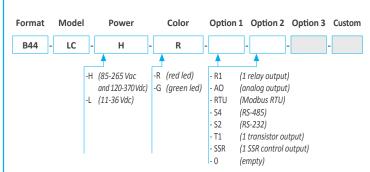








Order reference



* Option 3 available with formats B26 and B46



Rear view

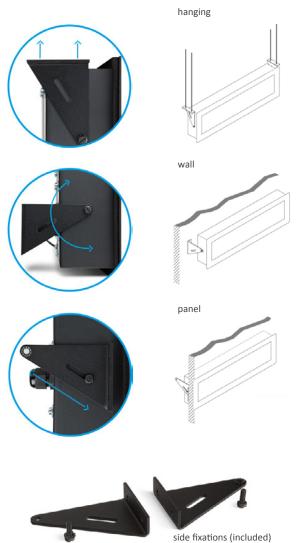




Output and control options

Format Mod	del Power Color	Option 1 Option 2	2 Option 3 Custom	
B44 - L0	- H - R	-		
† †				
<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			

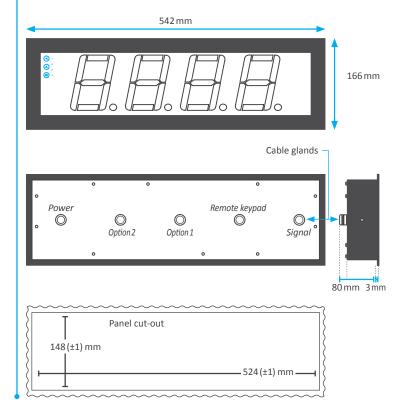
Mounting options



Functions included

'Fast access' menu fast access to parameters from front key 'UP' (■) (alarm setpoint,)	
'Tare' function configurable from different access points	
'Auto-tare' function automatic tare	
Scale factor scale the reading values and offset	
'Stock of units' count number of items based on weight	
Modes modes with noise rejection to 50 and 60 Hz	
Alarms with one or two setpoints, independent activation and deactivation delays, hysteresis, optional manual deactivation of the relay	
Stability alarms activation triggered by stability of the signal	
Display filters recursive filter, 'steps', fixed digits,	
Rear control activate functions from rear terminal	
Front key 'LE' (\P) activate functions from front key	
'On power-up' function activate functions at power-up	
Memory maximum and minimum	
Password blocks access to configuration menu.	
Troubleshooting functions values for input signal, excitation voltage and excitation current provided to the cell	
Brightness 5 levels of brightness intensity.	

Dimensions











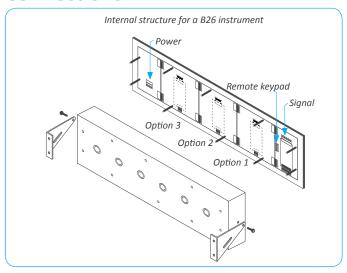


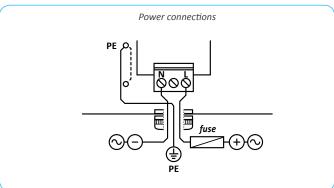
Amplicon.com

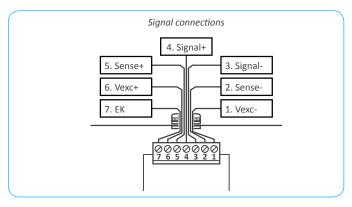
IT and Instrumentation for industry

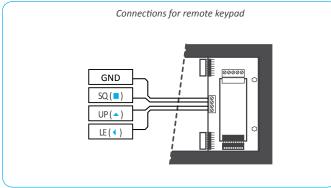


Connections













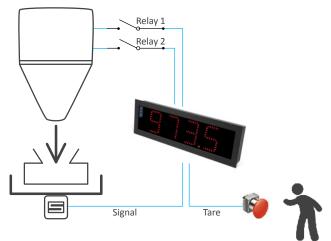




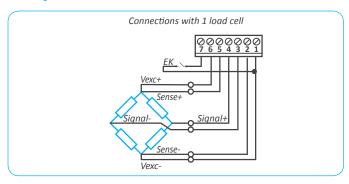


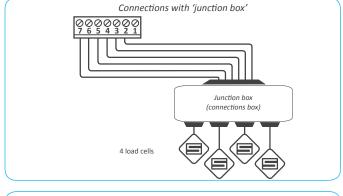
Example of application with control

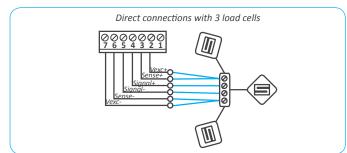
Bucket filling with material from a silo. Measure and reading of the weight at the bucket, with automatic control for slow filling with relay 1 and final closing of the silo opening with relay 2.



Examples for other connections







Amplicon.com

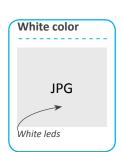
IT and Instrumentation for industry

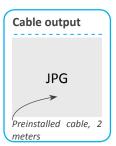


Other options



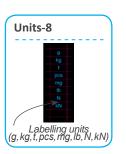




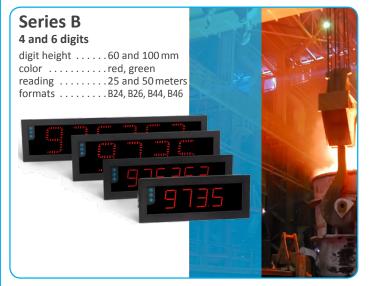


Accessories





Other meters for load cells



Series M 4, 5 and 6 digits

digit height14 mm
colorred, green
reading5 meters
size96 x 48 mm



Series K

Further view

digit height 20 mm color red reading ... 8 meters size 96 x 48 mm



Series S

Compact size



Other signals

















RS-485

















