B24-CR Chronometer



Large format meter with 4 digits and 60 mm digit height, for reading up to 25 meters for industrial applications. Chronometer and time counter functions. Versatile and configurable instrument, with controls for start, stop and reset, with up and down counting, and multiple reading formats. 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

Reading 9999 / -1999 Decimal point configurable Led color red or green Digit height 60 mm 7 segment Type of digit Angle of vision 120º

Time counter

Counting direction

Reading formats

'mm.ss' 'hh.mm' 'dd.hh' 'ssss' 'sss.s' 'ss.ss' 'mmmm' 'mmm.m' 'mm.mm' 'hhhh' 'hhh.h' 'hh.hh' (s=sec., m=min., h=hour, d=day)

up, down

Controls start, stop, reset

Control activation free potential contact (by default) and configu-

rable for push-pull, NPN, PNP, inductive, ...

Maximum Vdc at input terminals ±30 Vdc

Reset control remote, front reset and linked to alarm

Accuracy 100 ppm Display refresh 12 refresh / second

Reading memory maintains in case of power loss

max. 0.5 mm² Signal wire diameter

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 <3.0 W (meter only) <5.0 W (meter with options)

Power wire diameter max. 2.5 mm²

Mechanical

metallic (textured black painted iron) Housing

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

internal plug-in screw terminals

Weight <2200 grams Mounting panel, wall, hanging Front size 340 x 135 mm Panel cut-out 322 x 117 mm

Deep 80 mm (including terminals)

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



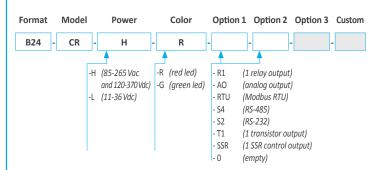








Order reference

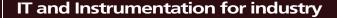


* Option 3 available with formats B26 and B46



Rear view



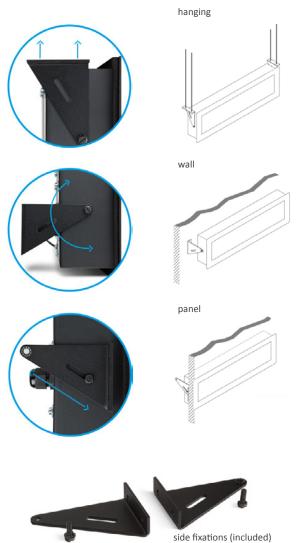




Output and control options

Format Mod	del Power Color	Option 1 Option 2	2 Option 3 Custom		
B24 - CF	R - H - R		-		
<u>↑</u>					
<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				

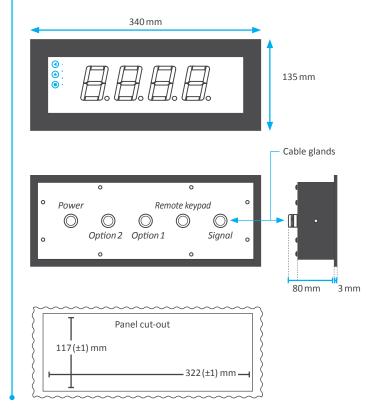
Mounting options



Functions included

'Fast access' menu a single press on the front keypad gives access to alarm setpoint modification, preset, memories,
Reading
Counting direction up, down
$Configurable\ reset. \dots front\ and\ rear\ reset, and\ reset\ linked\ to\ alarm\ activation$
Presetconfigurable
Retention memoryrecovers the counting value in case of power loss
Special modes control for 'up' or 'down' counting, control for 'hold' counting, second counter for cycles, second counter for total counting time, second counter for exceeded time counting, memory of longest and shortest cycles.
'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
Brightness 5 levels of brightness intensity.
Memory maximum, minimum, cycles,
Password blocks access to configuration menu.

Dimensions











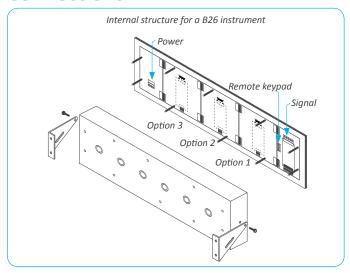


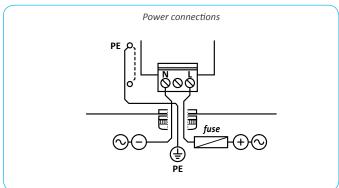
Amplicon.com

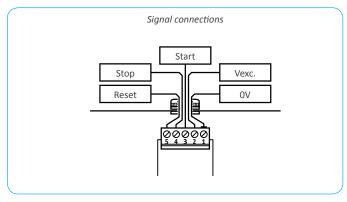
IT and Instrumentation for industry

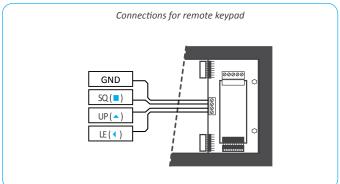


Connections



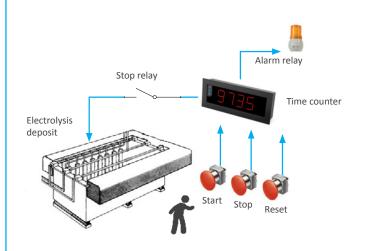






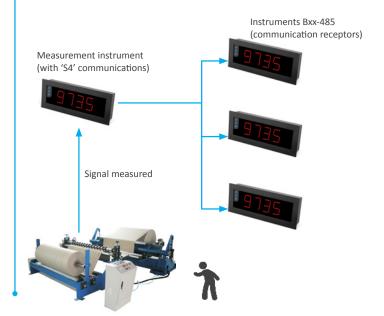


Reading and control of the total electrolysis time applied to a chemical process. The operator configures the duration time for the treatment and the instrument activates a relay when the configured time is over. The operator controls the reset to '0' and the start of the counting. The special mode 'exceeded time' shows the accumulated time since the alarm was activated. The special mode 'total time' provides information on the total electrolysis times applied since last reset, useful to control the maintenance times for the electrolysis machine.



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.











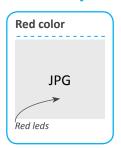


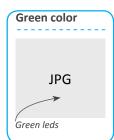
Amplicon.com

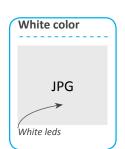
IT and Instrumentation for industry

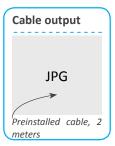


Other options









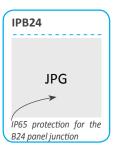
Others formats within the Series B

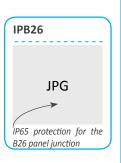


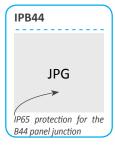
	Digit height	Digits	Reading distance
Format B24	60 mm	4	up to 25 meters
Format B26	60 mm	6	up to 25 meters
Format B44	100 mm	4	up to 50 meters
Format B46	100 mm	6	up to 50 meters

Accessories











Other chronometers and time counters



digit height14 mm colorred, green vision5 meters size96 x 48 mm







Series S

Compact size

digit height ...14 mm color ... red, green vision ... 5 meters size ... 72 x 36 mm











5 YEARS Extended Warranty