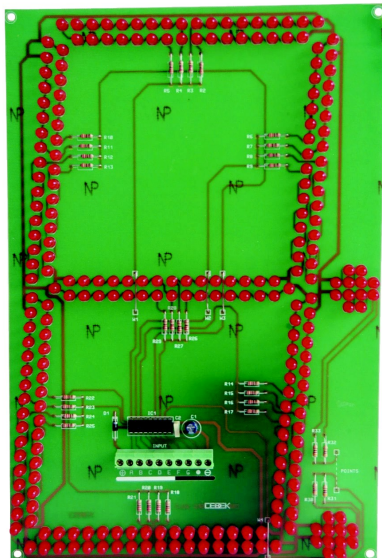




# cebek<sup>®</sup>



## 7 SEGMENTS DISPLAY 30 cm. Indoor CD-24

### Technical Characteristics

Supply Voltage. ....	21 V. CC.
minimum consumption. ....	0 mA.
maximum consumption. ....	410 mA.
Measures. ....	290 x 194 x 15 mm.
Logic Inputs. ....	7 segments / TTL-CMOS.
luminosity. ....	300 mcd / led.
Angle Light Scattering. ....	60°.
Reverse polarity protection (PIP). ....	Yes.

The CD-24 is a display common cathode 7-segments consists of high brightness LEDs. Decimal point and also incorporates flag hour. Supports input TLL and CMOS.

It is compatible and can be controlled by the modules CD-25 and CD-26.

**ALIMENTATION.** The CD-24 must be supplied with a voltage of 21 V. perfectly stabilized DC, so we recommend not using simple power supply, which will adversely affect the operation of the module. We suggest the power supply FE-24, which is well suited to the needs of the circuit.

Install a fuse and a switch as shown in the drawing, both are essential to protect the module and for your own safety, as reflected in the CE.

See the instruction sheet for the FE-24, before the display connect adjust to 21 V. Then remove it and make no voltage wiring to the module.

Then, a positive and negative power terminals with corresponding display. Before proceeding, make sure that you have completed the installation.

**OPERATION.** Both the display and the control board that connects to it, have eight terminals, (7 segments and point). You must connect, respecting the specific order, the terminals of the control board with display terminals. Pay particular attention to the assembly, if you make a mistake the circuit will work incorrectly.

Observe the General Wiring.

Wiring between the display and the control plate, considering the position it should occupy, (ones, tens, hundreds, etc..).

To control the display with other devices outside the modules CD-25 and CD-26, first be sure to connect the negative of its control circuit and the display, after wiring the 7 segments and point.

The excitation of each segment will occur when a positive signal is injected between 5 and 30 V. D.C. By contrast, the segment will remain off when the injected signal is the negative (0 V). Must always maintain the display connected to the inputs a signal of 0 V, or the corresponding positive voltage. If not, the display will behave incorrectly

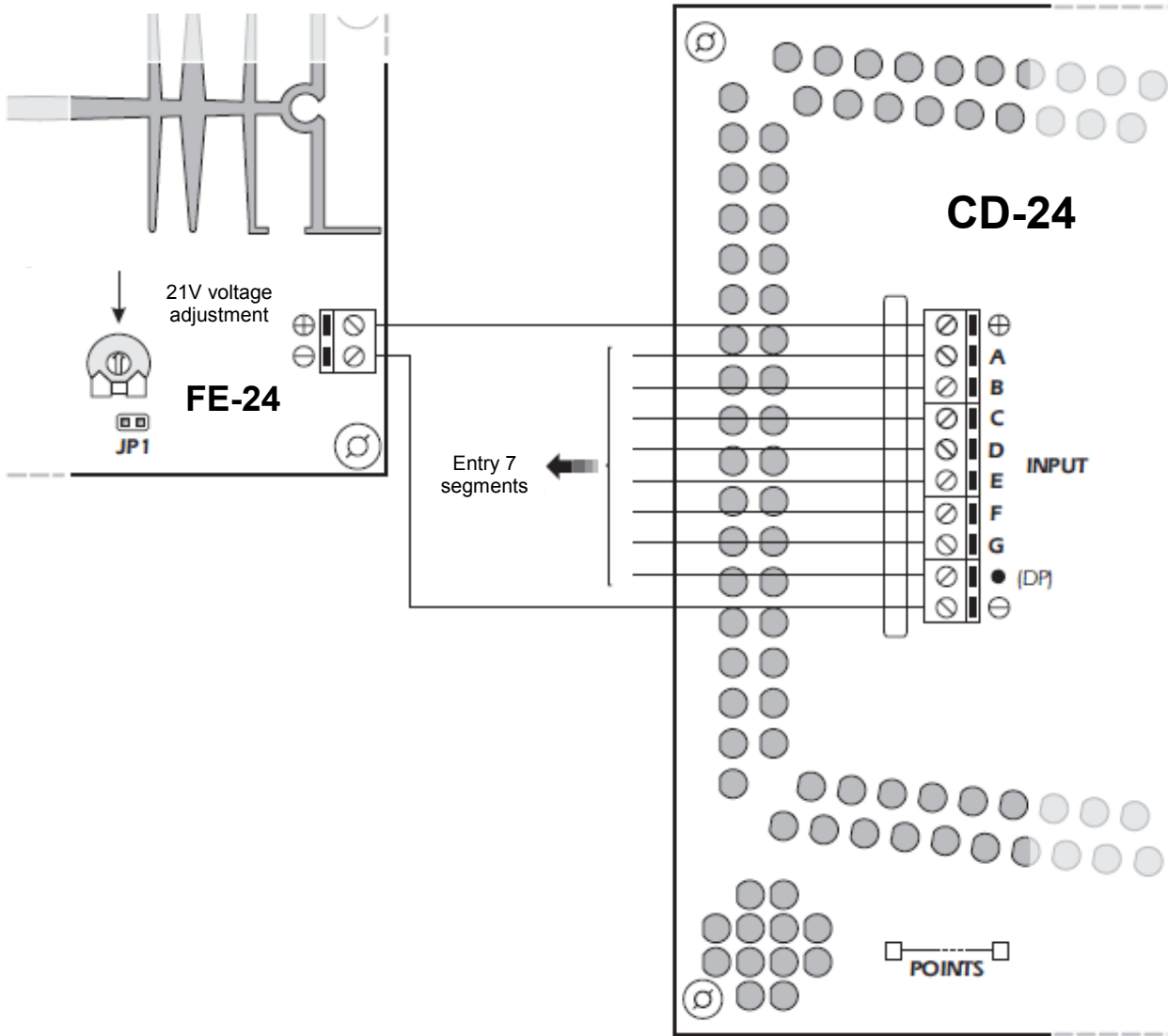
**DECIMAL POINT / TIME FLASHING.** The display allows you to choose between a lower trigger point (decimal), or both points, becoming a marker schedule. The factory provides only the decimal point, to turn the other point must be joined by a bridge circuit two holes marked "POINTS".

Thus, when the input excite point, both points will be illuminated simultaneously.

**CONSIDERATIONS.** The length of the body wiring and plate or display control circuit should not exceed 50 cm, otherwise it could become a collector of various parasites and interference that negatively affect module operation. If needs a higher length to a maximum of 2 m. can use shielded cable, attaching the mesh to the negative of the circuit. It is not advisable to exceed 2 m.

The drive plate will always be powered by a stabilized power supply perfectly since their stability will also impact on the control signals on the display.

# GENERAL WIRING



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