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Multicolored LEDs



# J1805, J2005, J2405

## LEDS INDICATOR DISPLAY PANELS



Reduces energy consumption by 50%.  
7 LEDs colours available.

15V to 60Vac/dc, 70V to 150Vac/dc,  
80V to 265Vac/dc with galvanic insulation.

Included LEDs test.

Included output contact for send general information.  
Interchangeable labels.

Unpluggable terminal boards.



Voltage presence LED   «LEDs Test» button   Control button



### USE :

- Allows display and regrouping economic of indicators with texts.
- Indicator lights can be differentiated by seven different colours per LEDs for better visibility.
- Included «LEDs Test» button and signaling «voltage presence».
- Large supply range allows to group several models and reduce stocks.
- Possibility of sending back one information remotely concerning the presence of one or several channels (clustering).

### SPECIFICATION :

#### On front :

- «Voltage presence» LED.
- «LEDs Test» push button.
- «AUX» impulse push button connected to rear terminal board for an user use.

#### At rear of unit :

- 8, 12 or 24 «dry contact» inputs.
- One input per rear terminal board for «LEDs Test» external push button.
- Rear terminals for use of «AUX» push button.
- 1 general output contact (O /C) synthesis relay.
- Channel selector to activate the synthesis relay.



Our range of signaling panels, allows in a single cutout to install and group 8, 12 or 24 multicolored LEDs with an integrated «Test LED» push button.

- Closing the contact connected to the input lights the corresponding high-luminosity LED which changes from light gray to the selected color (7 possible choices: red, green, yellow, white, blue, cyan, magenta). The synthesis relay is activated (if it has been selected).
- The opening of the contact connected to the input turns off the corresponding LED.
- A «LED test» push button is present on the front.
- A «LEDs test» terminal connected to an external push button allows all the LEDs to be lit.

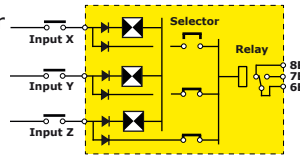
With this technology, the LED consumes only 10mA, a reduction of 50% compared to the old generation (J1800, J2000, J2400) and with increased longevity.



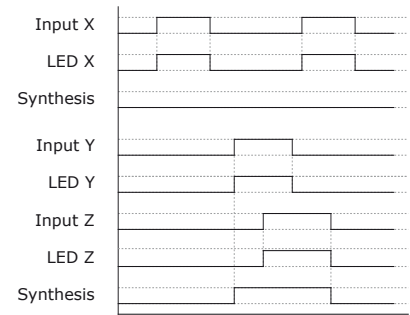
LED Indicator Display

## OPERATION :

- Closing the contact connected to the input lights up the corresponding LED. If the channel was selected for sending information, synthesis relay will be activated.
- Opening the contact connected to the input turns OFF the corresponding LED. If the channel was selected for sending information, the synthesis relay may be deactivated (if no other channel activates the relay).
- If several channels are selected towards the relay, it will be deactivated only when all channels which activated it, have disappeared.



In this example, only the Y and Z inputs are selected to the relay

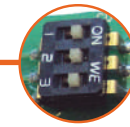
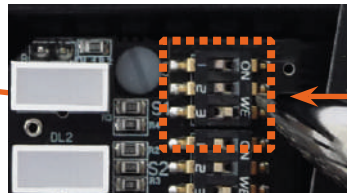


## LED COLOUR SETTING :

A display choice of 7 colors per LEDs is possible. This choice is selectable using switches on the panel front face. You have a choice of the following colours :

**Red, Green, Yellow, Blue, White, Cyan, Magenta.**

The working lifetime of this type of component is practically unlimited. To improve reliability, the LED is piloted at 10mA assuring substantial and constant luminosity irrespective of supply voltage. This control ensures effective protection in case of over-voltage. Replace LEDs is no longer necessary.



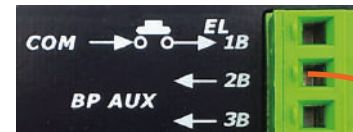
	OFF	ON
Bleu Blue		
Vert Green		
Rouge Red		
Jaune Yellow		
Magenta		
Cyan		
Blanc White		
Eteint Off		

## «TEST» & «AUX» BUTTONS :

A «LEDs Test» push button on the unit front allows you to carry out a general «LEDs Test». One «EL» terminal at rear of unit allows you to have an external general push button, to connect a «LEDs Test» on one or several panels. It is possible to test the set of LEDs and the synthesis relay by pushing on the «LEDs Test» push button or by activating the «EL» terminal.

On the unit front another pushbutton is present. This «AUX» impulse push button is free of potential, this closing contact is linked to the «BP AUX» terminal at the rear of the unit and enables the remote dispatch of information (for example : call operator).

External «LEDs test» connection and «AUX» button on front



## SYNTHESIS RELAY (OUTPUT RELAY) :

Jumpers are used to select the inputs that will activate the synthesis relay. The synthesis relay is used to send selective information remotely indicating that at least one selected input is present. This will remain excited as long as one of the selected inputs remains activated.

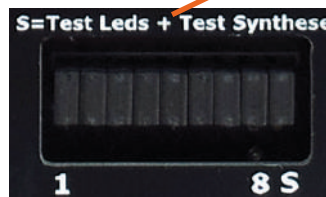
This relay delivers a dry contact (output with changeover contact). The relay contact terminal block is located at the rear of the device (Open / Closed / Common).

- It is possible to test the relay with the «Test LEDs» function, when a jumper is present on the «S» selector.

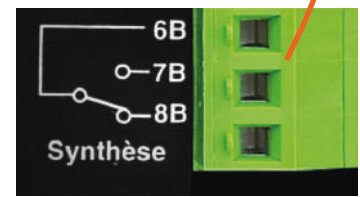


Inputs	Input condition	Selector	Synthesis relay
Input X	Off	On or Off	Deactivated
Input X	On	Off	Deactivated
Input X	On	On	Activated
Input X + Input Y	On + On	On + On	Activated
Input X + Input Y	On + Off	On + On	Activated
Input X + Input Y	Off + Off	On + On	Deactivated

The relay is activated as long as one single selected input is present



Selection jumpers



Synthesis relay output

## PRODUCING LABELS :



Labels are ordinary paper sheets that can be slid into a transparent pocket included in the thickness of the front face. A blank label is supplied with each unit.

Labels can be handmade, or draw the screen of the PC and produced on a colour printer (laser or ink-jet).

The PC software allows to create labels including images, allows to save and duplicate the achievements.

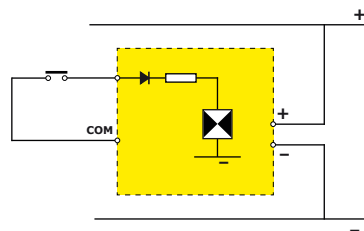
This PC software is FREE. It is possible to load it on our website :

**[www.ami-control.com](http://www.ami-control.com)**

For high humidity countries, the printing on plastic sheets is recommended.

### INPUT DEFINITION :

One «+» polarity on the input, lights up LED (LEDs are connected to «-» in the panel).  
«Positive input» model is standard.



The input contact closure causes the lighting up of the LED and activation of the synthesis relay (if selected).

### POSSIBLE CONNECTIONS :

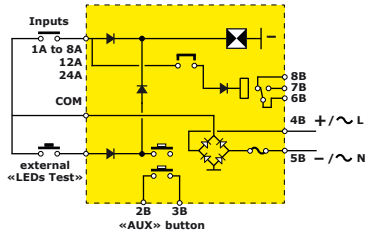


Diagram 1 : Power supply by continuous voltage (DC) or alternating voltage (AC). Use of inputs with «dry contact» (the contacts are fed by an internal voltage delivered by the unit on the «COM»). This voltage supply is protected by the fuse.  
Diagram for version : 15 to 60Vac/dc (02 version) and 70 to 150Vac/dc (04 version).

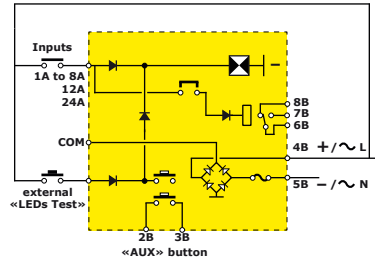


Diagram 2 : Power supply by continuous voltage (DC) or alternating voltage (AC). Use of inputs with an external voltage (the contacts are fed with the same voltage as that of the unit and with polarity connected to terminal 4B). In this case, the voltage supply is not protected by the fuse.  
Diagram for version : 15 to 60Vac/dc (02 version) and 70 to 150Vac/dc (04 version).

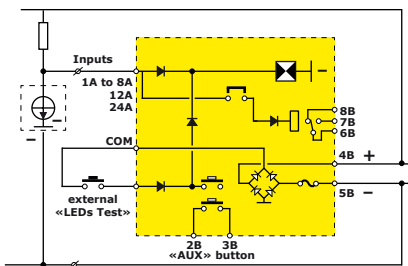


Diagram 3 : Power supply with DC voltage and «open collector» on inputs. A pull-up resistor to «+» is necessary. A «-» power supply return is necessary. The voltage supply on the inputs is not protected. The LED lights up when the «open collector» is blocked (OFF).  
Diagram for version : 15 to 60Vac/dc (02 version) and 70 to 150Vac/dc (04 version).

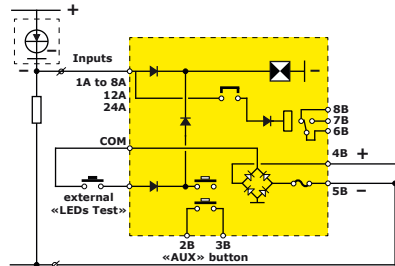


Diagram 4 : Power supply with DC voltage and «open collector» on inputs. A pull down resistor at «-» can be useful to compensate for leakage currents of the transistor. A «-» power supply return is necessary. The voltage supply on the inputs is not protected. The LED lights up when the «open collector» conducts (ON).  
Diagram for version : 15 to 60Vac/dc (02 version) and 70 to 150Vac/dc (04 version).

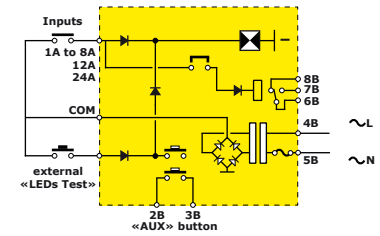
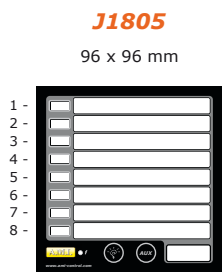
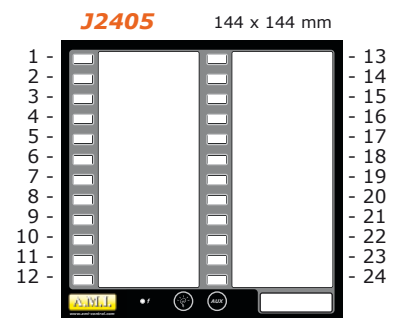
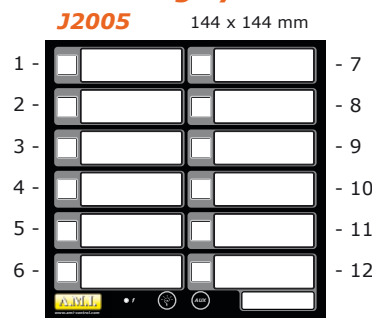


Diagram 5 : Power supply with AC voltage with galvanic insulation. Use of inputs with «dry contact» (the contacts are fed by an internal voltage delivered by the unit on the «COM»). This voltage supply is protected by the fuse.  
Diagram for version : 80-265Vac/dc (05 version) with galvanic insulation.

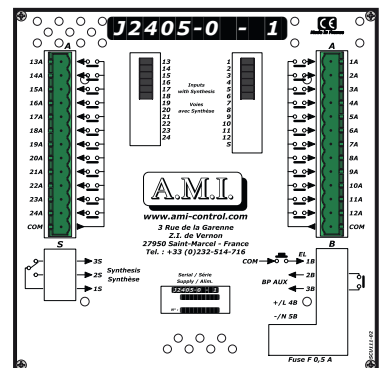
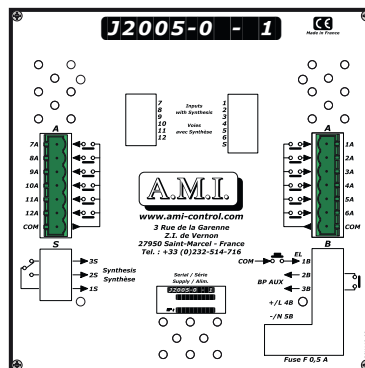
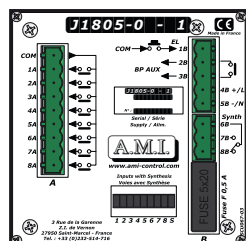
### FRONT FACE :



### Numbering system



### REAR FACE :

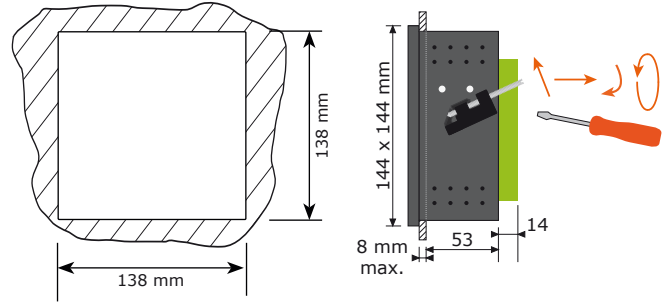
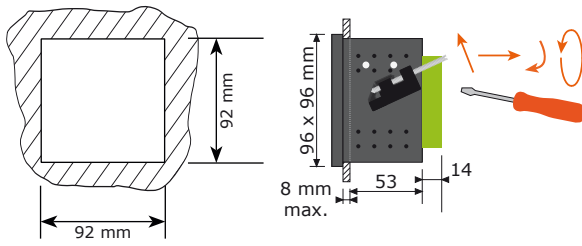




**CUT-OUT :**

DIN 96x96 format

DIN 144x144 format



**TECHNICAL SPECIFICATIONS :**

		Input voltage	Tolerance	Minimum total consumption	Maximum total consumption	Dimensions in mm L x l x p	Weight in g.
<b>J1805</b>	15 - 60Vac/dc	02	15 - 60Vac/dc	5mA	95mA	96 x 96 x 75	295g
	70 - 150Vac/dc	04	70 - 150Vac/dc	5mA	95mA		295g
	80-265Vac/dc*	05	70 - 150Vac/dc COM (+12Vdc)	5mA	31mA		310g
<b>J2005</b>	15 - 60Vac/dc	02	15 - 60Vac/dc	5mA	135mA	144 x 144 x 75	530g
	70 - 150Vac/dc	04	70 - 150Vac/dc	5mA	135mA		530g
	80-265Vac/dc*	05	70 - 150Vac/dc COM (+12Vdc)	5mA	37mA		545g
<b>J2405</b>	15 - 60Vac/dc	02	15 - 60Vac/dc	5mA	255mA	144 x 144 x 75	560g
	70 - 150Vac/dc	04	70 - 150Vac/dc	5mA	255mA		560g
	80-265Vac/dc*	05	70 - 150Vac/dc COM (+12Vdc)	5mA	52mA		580g

\* Galvanically insulated power supply with UL506, CSA 22-1, VDE & EN60950, EN61558-1, EN61558-2-6 accreditation.

Contact on output relay :  
1 O/C 6A/12Vdc - 0.15A/240Vac

«AUX» button :  
6A (12Vac/dc)  
0.2A (240Vac/dc)

Nominal temperature :  
70 to 150Vac/dc : -20°C / +50°C  
Others : -20°C / +60°C

Storage temperature :  
-20°C / +70°C

Humidity :  
90% without condensation

Storage humidity :  
70%

Front/Rear protection :  
IP52 / IP22

Protection with cap in  
optional front :  
IP54

**ORDER REFERENCE :**

**Jxx05-0x-11**

Panel with 8 LEDs **J1805**  
Panel with 12 LEDs **J2005**  
Panel with 24 LEDs **J2405**

**1** Included synthesis relay  
**1** «Positive» input/Dry contact  
**2** «Negative» input/Dry contact  
**02** 15 to 60Vac/dc  
**04** 70 to 150Vac/dc  
**05** 80-265Vac/dc galvanically insulated

Example :

**J1805-02-11**, J1805 for 15 to 60Vac/dc power supply, positive inputs with included output relay.

**COMPLEMENTARY PRODUCTS :**

**M0720 / M0722, IP54 sealed front**

IP54 sealed front that is fitted directly to product front.  
An O-ring provides sealing between steel cabinet and panel.  
The front is a transparent and open door.

**M0720** «Quarter-turn» closing button 144x144 format

**M0722** «Quarter-turn» closing button 96x96 format

**M0800 19-inch brushed aluminium Ht : 4U front for bay**  
3 pre-drilled holes 138x138mm.

**M0815 Cover mask 144x144**  
fitting to M0800 front.

**M0810 19-inch brushed aluminium Ht : 3U front for bay**  
4 pre-drilled holes 92x92mm.

**M0816 Cover mask 96x96**  
fitting to M0810 front.

**M0730 Adaptor for mounting on DIN Rail profil TS35**

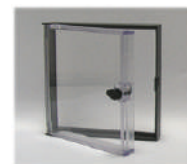
For 144x144 format

**M0731 Adaptor for mounting on DIN Rail profil TS35**

For 96x96 format



**M0722**



**M0720**



**M0800 / M0815**



**M0810 / M0816**



**M0731**



**M0730**

Refer to **ACCESSORIES** chapter of our catalog.

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