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Warranty
2
years
supplied



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.



J2405

J2005

J1805



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 a 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 indicator display panels range allows you to fit and to group 8, 12 or 24 multicolour indicators with one single cut-out. It include «LEDs Test» push button.

- Closing the contact connected to the input lights up the corresponding LED and activate the synthesis relay if it has been selected.
- Opening the contact connected to the input turns OFF the corresponding LED.
- A «LEDs Test» terminal connected to an external push button allows the lighting up of all LEDs.

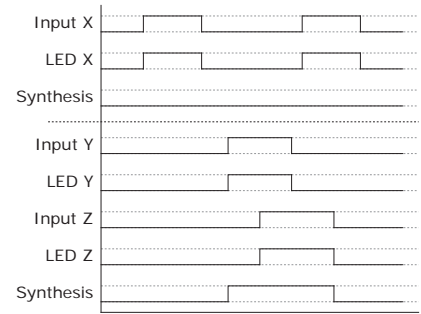
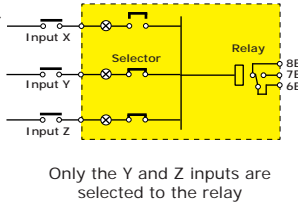
Using this technology LEDs consume only 10mA each, that is a reduction of 50% from the previous generation (J1800, J2000, and J2400) and with increased longevity.



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.

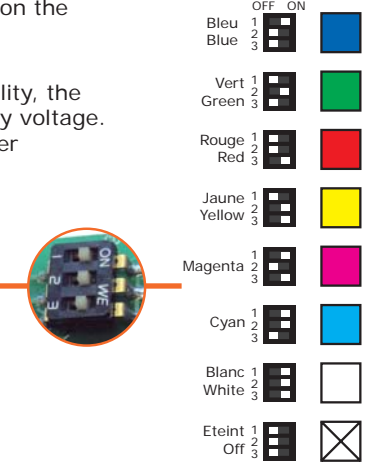
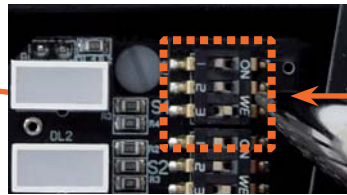


LED COLOUR SETTING :


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.



«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) :

The synthesis relay allows you remotely to send one information indicating that one or more channel selected is present.

The jumpers allow the selection of channels that will activate the synthesis relay.

The relay will remain active as long as one of the inputs selected is activate, allowing to send one selective information. This relay delivers a dry contact (O / C output free contact).

The 3 contact terminals (Open /Close /common) are located at the rear of the unit.

- The «Relay Test» is possible or not with the «LEDs Test» function, by leaving the jumper on position «S».

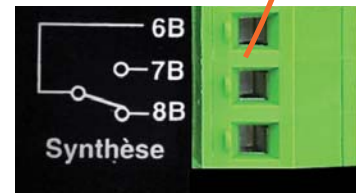


Inputs	Input condition	Selector	Synthesis relay
Input X	Off	On or Off	Deactivated
Input X	On	Off	Deactivated
Input X	On	On	Activated
Input X + Input Y	On + On	On + On	Activated
Input X + Input Y	On + Off	On + On	Activated
Input X + Input Y	Off + Off	On + On	Deactivated

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.

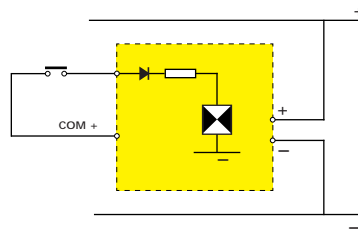
This PC software is **FREE**. It is possible to load it on our website :

www.ami-control.com

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 :

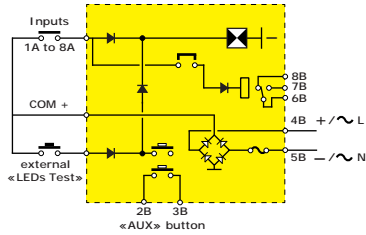


Diagram 1 :

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).

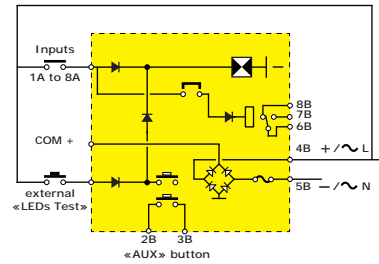


Diagram 2 :

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).

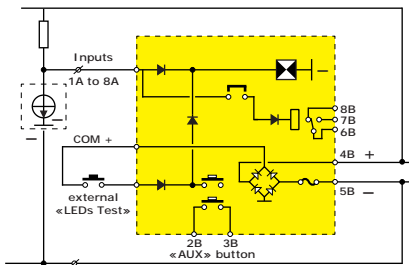


Diagram 3 :

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).

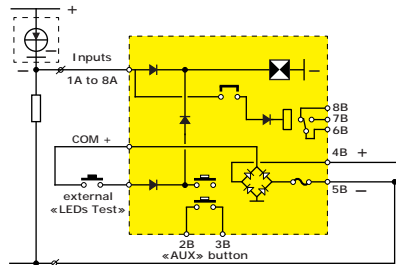


Diagram 4 :

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).

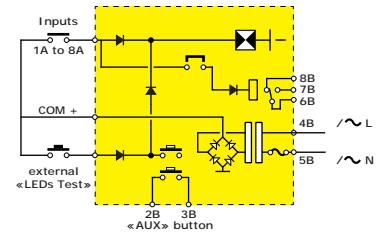


Diagram 5 :

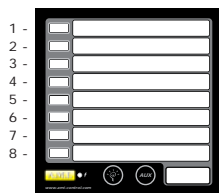
Power supply with AC voltage with galvanic insulation.

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 :

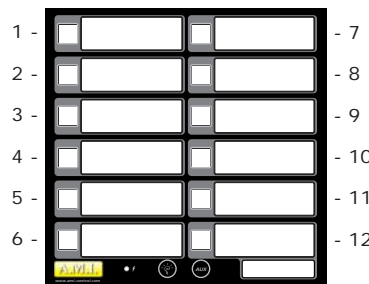
127Vac (04T version), 80-265Vac/dc (05C version) and 230Vac (05T version) with galvanic insulation.

FRONT FACE :

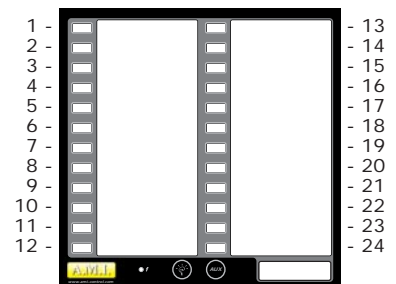


J1805

Numbering system

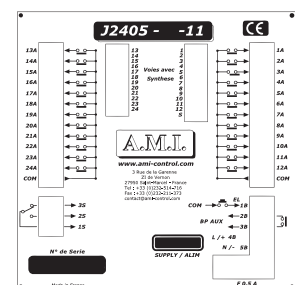
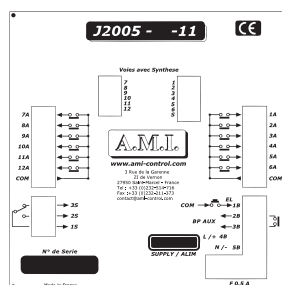
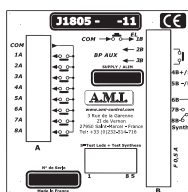


J2005



J2405

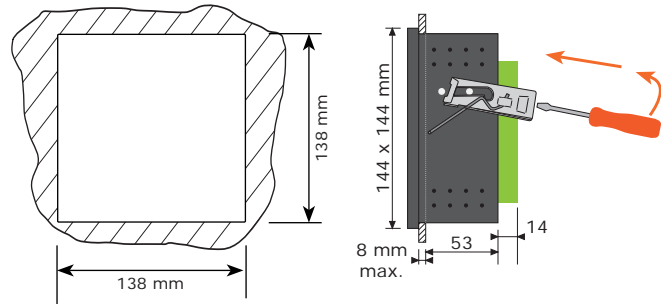
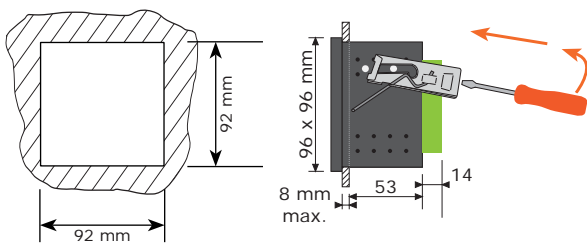
REAR FACE :



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.
J1805	15 - 60Vac/dc	02	15 - 60Vac/dc	15 - 60Vac/dc	5mA	96 x 96 x 75	295g
	70 - 150Vac/dc	04	70 - 150Vac/dc	70 - 150Vac/dc	5mA		295g
	80-265Vac/dc*	05	COM+	85 - 265Vac/dc	5mA		310g
J2005	15 - 60Vac/dc	02	15 - 60Vac/dc	15 - 60Vac/dc	5mA	144 x 144 x 75	530g
	70 - 150Vac/dc	04	70 - 150Vac/dc	70 - 150Vac/dc	5mA		530g
	80-265Vac/dc*	05	COM+	85 - 265Vac/dc	5mA		545g
J2405	15 - 60Vac/dc	02	15 - 60Vac/dc	15 - 60Vac/dc	5mA	144 x 144 x 75	560g
	70 - 150Vac/dc	04	70 - 150Vac/dc	70 - 150Vac/dc	5mA		560g
	80-265Vac/dc*	05	COM+	85 - 265Vac/dc	5mA		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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