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Warranty
2 years



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

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.



Voltage
presence
LED

«LEDs Test»
button

Control
button



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.

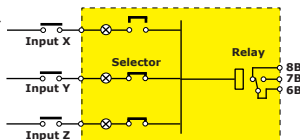
Using this technology LEDs consume only 10mA each, that is a reduction of 50% from the previous generation (J1800, J2000, and J2400) and with increased longevity.



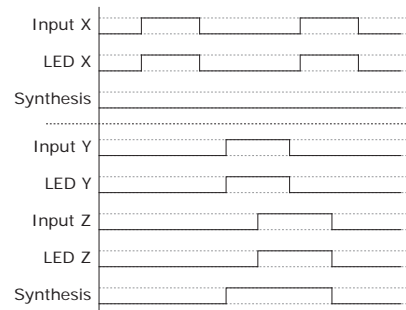
LED Indicator
Display

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.



Only the Y and Z inputs are selected to the relay

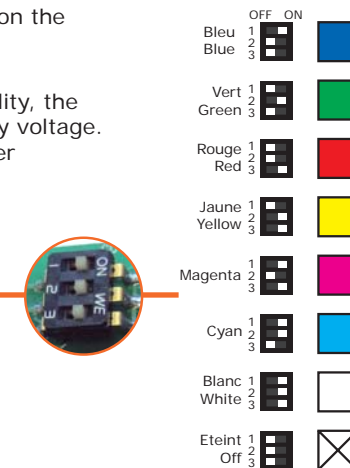
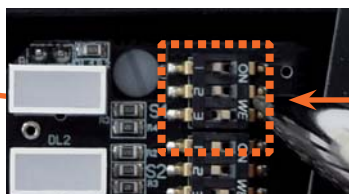


LED COLOUR SETTING :


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.



«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).

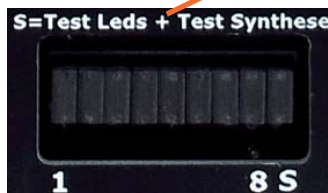
The 3 contact terminals (Open /Close /common) are located at the rear of the unit.

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

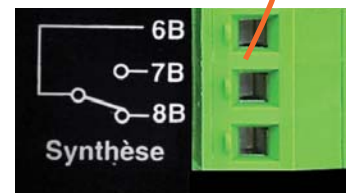


Inputs	Input condition	Selector	Synthesis relay
Input X	Off	On or Off	Deactivated
Input X	On	Off	Deactivated
Input X	On	On	Activated
Input X + Input Y	On + On	On + On	Activated
Input X + Input Y	On + Off	On + On	Activated
Input X + Input Y	Off + Off	On + On	Deactivated

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.

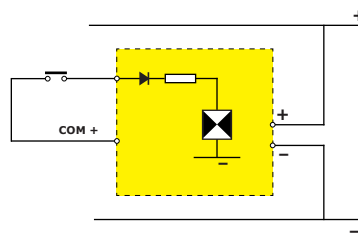
This PC software is **FREE**. It is possible to load it on our website :

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 :

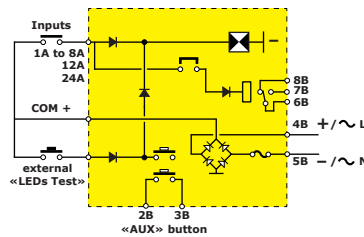


Diagram 1 :

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).

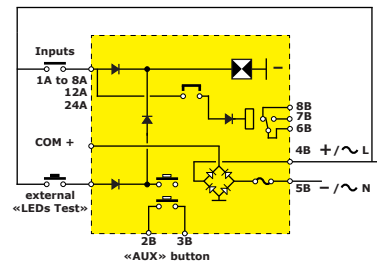


Diagram 2 :

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).

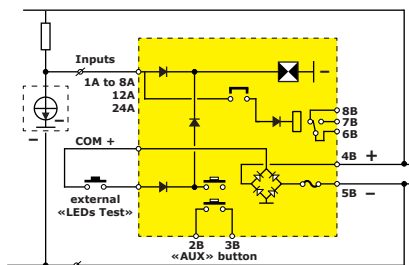


Diagram 3 :

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).

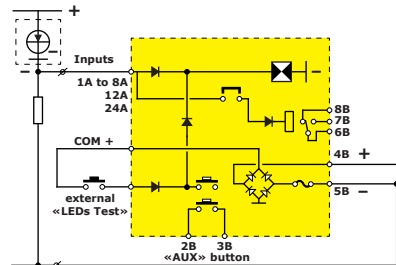


Diagram 4 :

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).

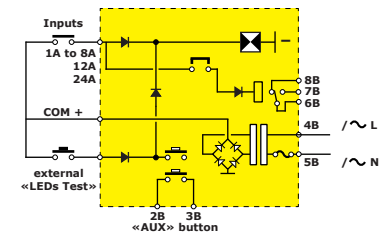


Diagram 5 :

Power supply with AC voltage with galvanic insulation.

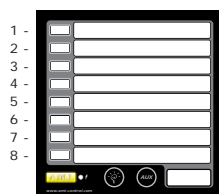
Use of inputs with «dry contact» (the contacts are fed by an internal voltage delivered by the unit on the «+COM»). This voltage supply is protected by the fuse.

Diagram for version :

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

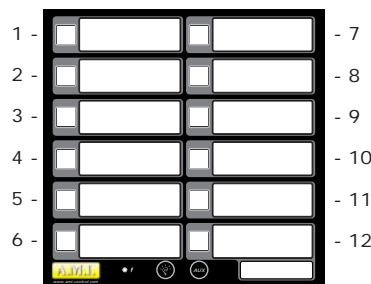
FRONT FACE :

J1805

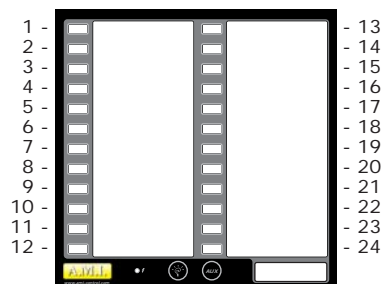


Numbering system

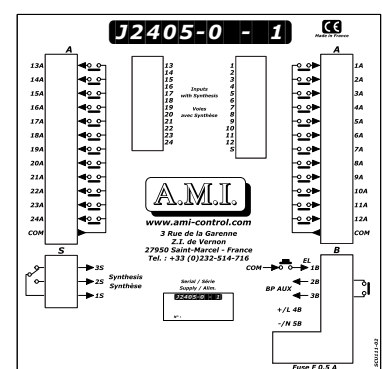
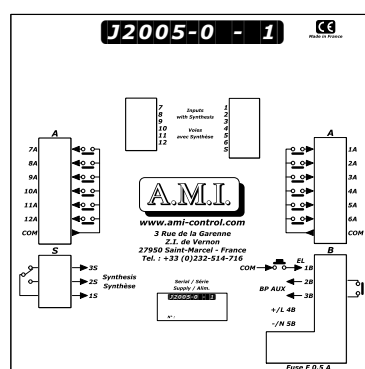
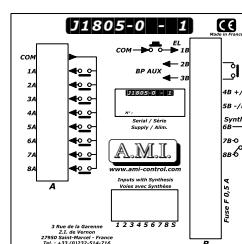
J2005



J2405



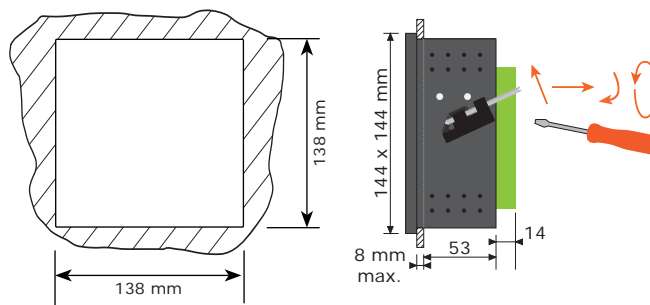
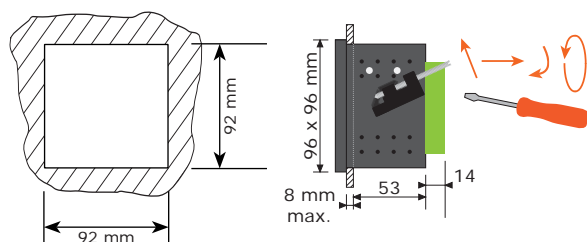
REAR FACE :



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	95mA	96 x 96 x 75	295g
70 - 150Vac/dc	04	70 - 150Vac/dc	70 - 150Vac/dc	5mA	95mA		295g
80-265Vac/dc*	05	COM+ (+12Vdc)	85 - 265Vac/dc	5mA	31mA		310g
J2005							
15 - 60Vac/dc	02	15 - 60Vac/dc	15 - 60Vac/dc	5mA	135mA	144 x 144 x 75	530g
70 - 150Vac/dc	04	70 - 150Vac/dc	70 - 150Vac/dc	5mA	135mA		530g
80-265Vac/dc*	05	COM+ (+12Vdc)	85 - 265Vac/dc	5mA	37mA		545g
J2405							
15 - 60Vac/dc	02	15 - 60Vac/dc	15 - 60Vac/dc	5mA	255mA	144 x 144 x 75	560g
70 - 150Vac/dc	04	70 - 150Vac/dc	70 - 150Vac/dc	5mA	255mA		560g
80-265Vac/dc*	05	COM+ (+12Vdc)	85 - 265Vac/dc	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 Adaptator for mounting on DIN Rail profil TS35

For 144x144 format

M0731 Adaptator 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.

3, Rue de la Garenne - Z.I. de Vernon
27950 SAINT MARCEL - FRANCE
tél. : +33 (0)2 32 51 47 16
Fax : +33 (0)2 32 21 13 73
<http://www.ami-control.com>
✉ : contact@ami-control.com

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Warranty
2 years

DIN 96 x 96 format



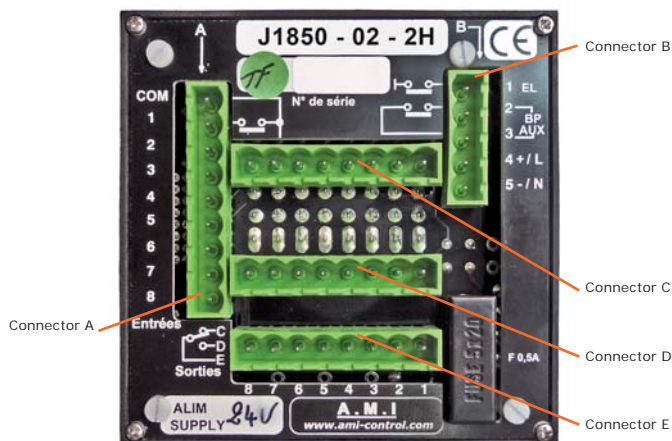
Voltage presence LED

«LEDs Test» button

«Auxiliary» button

Indicator display panel with selectable inputs

NO/NC selection
Fixed or blinking display
OUTPUT relay per input



LED Indicator Display

USE :

- Allows local display (for example in «Substation») of different information types (Run / Stop / Alert) when the acoustic alarm and the reset are not needed.
- Allows better identification of alarms (blinking LED).
- Accepts inputs in NO/NC contact (to avoid relaying).
- Allows informations clustering for processing with supervisor.
- Displays with a choice of various colours per LED :
Green, Yellow, Red, Blue
(easily unpluggable LEDs).

For each input :

- Selection of direction of input contact (NO = Normally Open, NC = Normally Closed).
- Selection of type of display: Blinking or fixed.
- 8 relays with IO/C contact for remote transfer of each channel
- separately (depending on chosen model).

For the unit :

- 8 unpluggable LEDs for easy colour change.
- «LEDs Test» button on front + input for external button.
- Auxiliary button on front brought out to terminals.
- One green LED for supply voltage presence.
- Unpluggable screw terminals block.

OPERATION :

When the channel is selected with SEx at NC

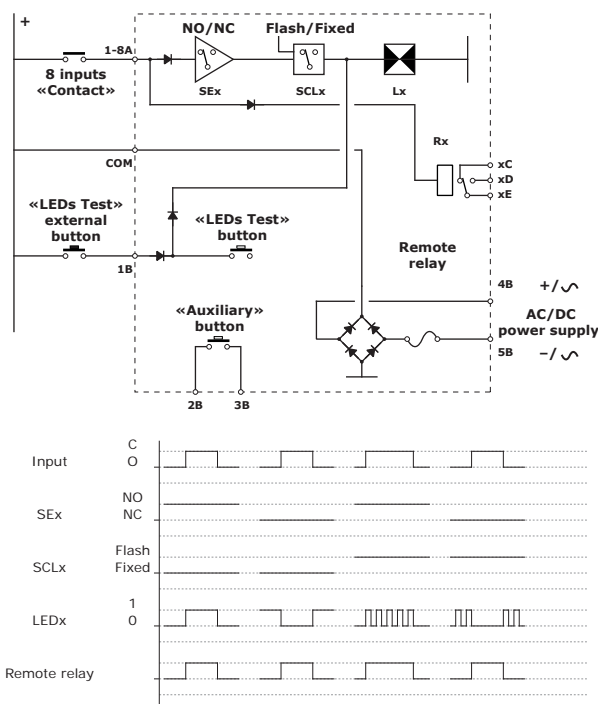
- When the input contact is closed, the light is OFF. Output contact is closed on xD/xE terminals.
- When the input contact is open, LED lights up (ON) or blinks following its selection on SCLx, the output relay falls (relay is at safety positive). Output contact is closed on xC/xE terminals.

When the channel is selected with SEx at NO

- When the input contact is closed, LED lights up (ON) or blinks following its selection on SCLx. Output contact is closed on xD/xE terminals.
- When the input contact is open, LED is OFF, the output relay falls. Output contact is open on xC/xE terminals.

Output relay is activated when the input contact is closed AND the supply voltage present.

MAIN DIAGRAM :



SPECIFICATIONS :

Power supply voltage	24 to 48Vac/dc +/-30%
Consumption	20mA per LED + 7mA per relay
Temperature	-20°C / +60°C
Humidity	90% noncondensing
Remote relay	1RT 6A/12Vdc - 0.15A/240Vac
Aux. push button	6A/12Vdc - 0.2A/250Vac
Weight	250g
Dimensions	96 x 96 x 67 mm
Protection without cover	IP52
Protection with cover	IP54

PRODUCING LABELS :



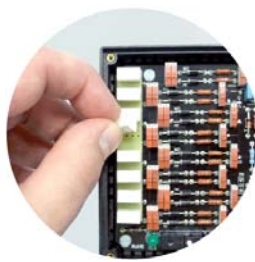
Labels are ordinary paper sheets that can be slid into a transparent pocket included in the thickness of the front. A blank label is supplied with each unit.

Labels can be handmade, or 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.

CHANGING LED COLOUR :



The LEDs are fitted on detachable sockets, enabling a change of colour. The colours available are the following ones :

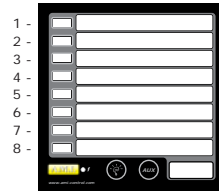
Red, Green, Yellow.

(Blue available on request)

The working lifetime of this component is practically unlimited. The low consumption (max 20mA per LED) and excellent luminosity contribute to the reliability of this type of panel.

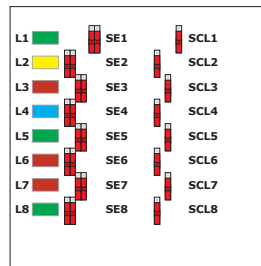
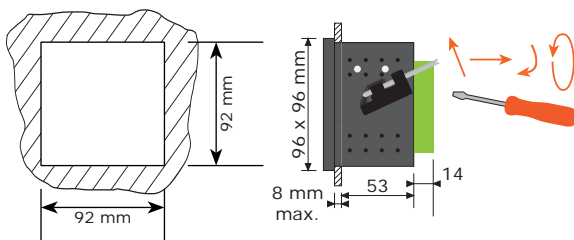
FRONT VIEW :

Numbering system



CUT-OUT :

DIN 96x96 format.



Selection made on product front :

- Lift off frame.
- Lift off the label support.

SEx (1 to 8) SCLx (1 to 8)

NO
NC

Blink
Fixed

ORDER REFERENCE :

J1850-0x-xxR

24Vac/dc : **02**
48Vdc : **03**

R Red
G Green
Y Yellow
B Blue

Indicates general colour of panel LEDs.

example :

J1850-02-1HR

J1850 width 24Vac/dc power supplied, «positive» inputs with 8 transfer relays included, 8 red LEDs equipped.

Possible complementary LEDs :

J2101-00-00 LED 5x10mm, color GREEN, code : 2500
J2101-00-10 LED 5x10mm, color YELLOW, code : 2400
J2101-00-20 LED 5x10mm, color RED, code : 2300
J2101-00-30 LED 5x10mm, color BLUE, code : 2300MBW.

To have LEDs of different colours, it is necessary to order a panel with one same colour and LEDs of desired complementary colour.

example :

Order :

J1850 with 5 green LEDs and 3 red LEDs.
1 x J1850-02-10G (all LEDs green)
3 x J2101-00-20 (3 LEDs 5x10 red)

COMPLEMENTARY PRODUCTS :

M0810 9-inch brushed aluminium Ht : 3U

Front for bay, 4 pre-drilled holes 92x92mm.

M0816 Cover mask 96x96

Fitting to M0810 front.

M0722 sealed front IP54

«Quarter-turn» closing button 96x96 format.

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.



M0810
M0816



M0722

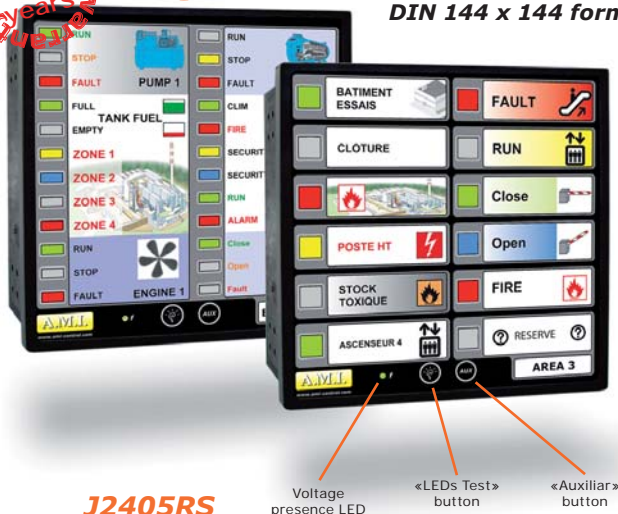
Refer to «Accessories» chapter of our catalog.

3, Rue de la Garenne - Z.I. de Vernon
27950 SAINT MARCEL - FRANCE
tél. : +33 (0)2 32 51 47 16
Fax : +33 (0)2 32 21 13 73
http://www.ami-control.com
✉ : contact@ami-control.com

A.M.I.



DIN 144 x 144 format



J2405RS

Voltage
presence LED

«LEDs Test»
button

J2005RS

PRINCIPLE :

This panel allows to use indicators and informations managed by a programmable automatic unit with distance (Run/Stop information, technical alarm indicator displays, etc.).

This solution easily allows to distribute informations along the bus and allows to have information at the desired place whilst minimising wiring.

It also allows preservation of the «synoptic» function carried out by the LEDs, which is not present on a screen or text display panel.

Connection and management through a single RS485 link gives significant economy (1 single RS485 card replaces all outputs cards, whatever the number of LEDs).

MAIN CHARACTERISTICS :

Fitted in housing 144x144 that can be fitted on front of cabinet.

Front fitted with :

- 12 or 24 «LED block» 10x10mm/5x10mm LEDs, 7 colour choices can be display per channel, selectable from the front panel with switches.
- LED power supply with tricolour alarm.
- 1 «LEDs Test» front button that can be used for RESET by the operator.

- 1 «Auxiliary» front button brought out to terminals.

- Panel is fitted with :
 - 1 «User» relay (1RT/2A)
 - 1 optional buzzer operating in parallel with the above relay.
 - 1 (1RT/2A) «Watchdog» relay with positive security.
 - 1 auxiliary push button brought out to terminals that can be used by the operator.
 - 1 input to external «LEDs Test» button that can be used for RESET by the operator.
 - 1 input/output to synchronize panels between them.
 - 1 Half Duplex RS485 link (reception and transmission are not simultaneous), (1 transmission/reception pair or 1 transmission pair + 1 reception pair).
 - A micro-controller manages the interface.

Indicator display panel using RS485/RS422 bus

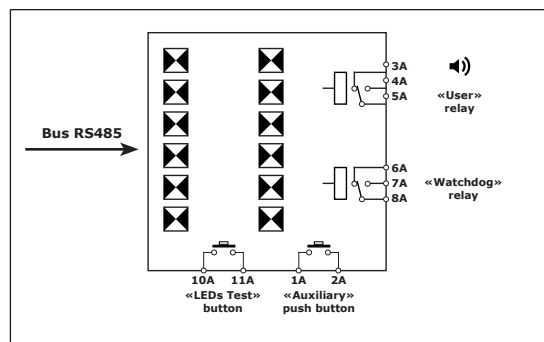
7 LEDs colours available.

Included «LEDs Test».

Included transfer relays.

Included output for external horn.

Interchangeable labels.



POSSIBLE FUNCTIONS :

a) Use :

The automatic unit can send a Modbus/Jbus signal and trigger the following actions :

- Light up one chosen LED.
- Light up all LEDs.
- Light up one chosen LED with slow blink.
- Light up all LEDs with slow blink.
- Light up one chosen LED with fast blink.
- Light up all LEDs with fast blink.
- Light up one chosen LED with flash.
- Light up all LEDs with flash.
- Turn off one chosen LED.
- Turn off all LEDs.
- Activate «User» relay (+ optional buzzer).
- Deactivate (or acknowledge) user relay (+ optional buzzer).
- Configure a channel at once (LEDs, relay).
- Read total panel condition in one go.

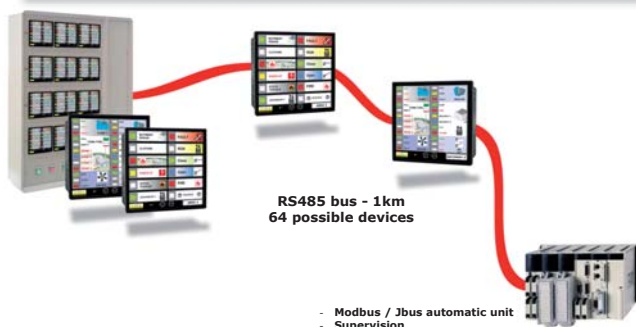
b) Configuration :

It is possible to activate a display program for the panel configuration with panel front LEDs.

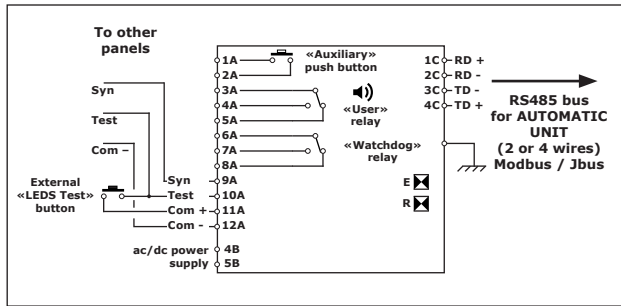
This configuration can be modified through the bus.

- RS485 link configuration.
- Synchronization signal reception mode.
- Synchronization signal transmission mode.
- To authorize or not local operator to reset user relay (+ optional buzzer) from push button or «LEDs Test» terminal.
- Bus control security selection with 4 possible times.

Please ask
for protocol transmission documentation
for more information on signal frames



REPRESENTATIVE DIAGRAM :



ANNEXE OPERATIONS :

- «Power supply» LED on front :
Green in normal position. It becomes orange if there is transmission error or loss of transmission.
- RS485 connection control by J2x05RS :
A control of presence and bus activity and control of automatic unit activity can be activated. A delay will be armed and reactivated at each transmission read by the panel. When the delaying period is completed, an alarm is generated (the voltage presence LED on the front becomes orange). Time delay values are ajustable through the RS485 link (0, 1, 5 and 10 minutes). (The 0 minute period deactivate bus control)
- J2x05RS presence control on bus by automatic unit :
Allows the supervisor or automatic unit to control rapidly the j2x05RS presence on the bus, thus the whole installation. The automatic unit can call cyclically all J2x05RS units present on the bus, witch will answer with return signal containing their slave unit number.
- «Reset» or «Acknowledge» function :
The panel can be calibrated «with or without acknowledgement». If the «Acknowledge» function is activated, any action on «LEDs Test» (button on front or rear terminal) will deactivate «User» relay and buzzer. This action will be saved by the panel for 30 seconds, allowing the automatic unit to monitor operator acknowledgement (for example : to change blinking light conditon to fixed condition).
- particular «Modbus» function :
The panel send back its slave number on interrogation with the slave number 65. Take the slave number 0 into account (carries out order but does not send back response).
- «User» relay (1RT/2A) used as «Sound alarm» relay :
This relay can be reset from the front TEST button (if authorization has been activated in panel configuration).
- Internal buzzer (as an option) :
Operating in parallel with the above relay, this buzzer is activated or deactivated by the RS485 bus or deactivated by the operator (following the panel setting) and at the same time as the «User» relay.
- «Watchdog» relay (1RT/2A) :
Positive security relay (module fault detection). This relay will be deactivated in case of any panel fault, or in case of exceeding the time set in the panel for bus monitoring.
- 1 «Auxiliary» button on front face + «Auxiliary» terminals (terminals 1A/2A) :
The front «Auxiliary» push button is brought out to terminals. It is a NO type, free of potential and can serve as a remote information return function for the operator.

- 1 «LEDs Test» button on front face + terminal «LEDs Test» (terminal 10A) :
It allows to carry out a «LEDs Test», to display panel configuration, to reset user relay and buzzer. The «LEDs Test» terminal enables the same functions as the front «LEDs Test» button and enables the function on several panels simultaneously, using an external closure button (use «COM +» terminal originating from only one panel to supply this external button).
- 1 Input/Output synchronization «Syn» terminal (terminal 9A) :
Each panel manages the blinking of its own LEDs. When an operator is in front of several panels, blinking lights can slide between panels causing visual fatigue. You only need connect the «Syn» terminals between the different panels and then to set up one single panel as transmitter. This latter will send out «clock pips» to synchronize the other panels.
 - If external synchronization disappears, the panel will resort to its own internal clock.
 - If external synchronization re-appears, the «receiver» panel re-synchronizes itself.
 - Please note : there should be only one single parameterized panel as a synchro transmitter.
 - It is necessary to connect the «Syn» terminals together and do the same with the «COM -» terminals of the panels concerned to ensure normal functioning.
- «COM +» terminal (terminal 11A) :
Allows to connect external button for «LEDs Test». **Never connect together one or more «COM +» terminals, or any «COM +» with a «COM -» terminal.**
- «COM -» terminal (terminal 12A) :
Allows to connect external synchronization circuit. **Never connect together one or more «COM +» terminals, or any «COM +» with a «COM -» terminal.**
- Power supply (terminals 1B/2B) :
Power supply can be «DC» or «AC». There is no particular polarity to be observed.

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 :

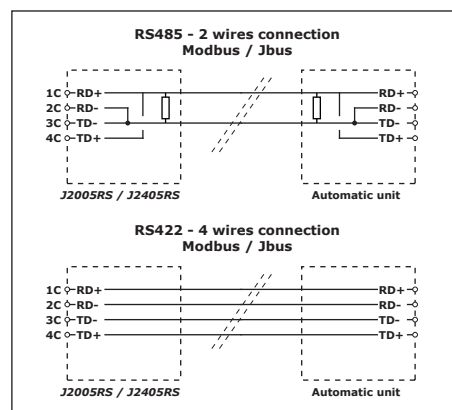
www.ami-control.com

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



RS485 TERMINAL BOARD : 2 OR 4 WIRES :

- RS485 (2 wires) : Half Duplex interface (reception and transmission are not simultaneous). Possibility of being connected with one transmission/reception pair.
- RS422 (4 wires) : 1 transmission pair + 1 reception pair (selection by strap on terminal board). 1200, 2400, 4800, 9600 and 19200 bauds Transmission speeds, no-parity mode, 8 bits transmission, 1 bit per stop-bit, slave number from 1 to 64 configurable through serial link. Possibility of direct display of current configuration on panel front.
- Slave number 0 is recognized by all modules, but no module responds.
- Slave number 65 is used during maintenance to find a module address.
- RS485 link line end resistor of 120 Ohms are external to the interface (refer to «Programming» chapter).
- Earth terminal : Earth to be connected to shielding of the bus cable and to the general chassis.
- «yellow» E LED : Impulses display signal passage in Emission from panel.
- «red» R LED : Impulses display signal passage in Reception coming from bus.

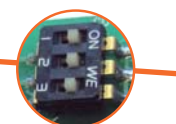


SETTING THE COLOR OF LEDS :

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.

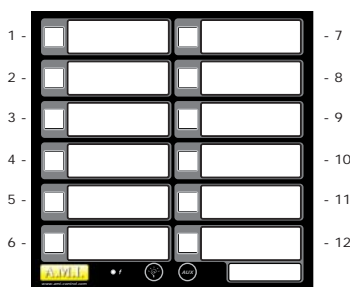
Changing LEDs is no longer necessary.



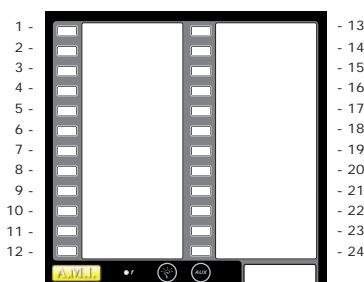
	OFF	ON
Bleu	1 2 3	Blue
Vert	1 2 3	Green
Rouge	1 2 3	Red
Jaune	1 2 3	Yellow
Magenta	1 2 3	Magenta
Cyan	1 2 3	Cyan
Blanc	1 2 3	White
Eteint	1 2 3	Off

FRONT FACE :

numbering system

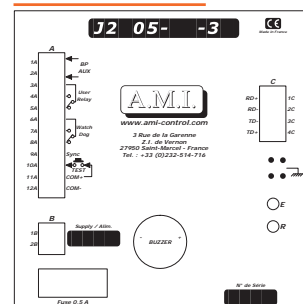


J2005RS



J2405RS

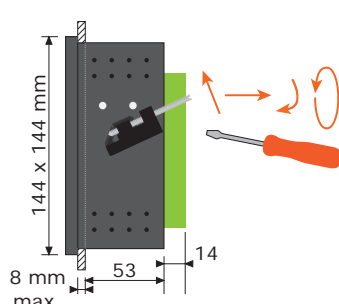
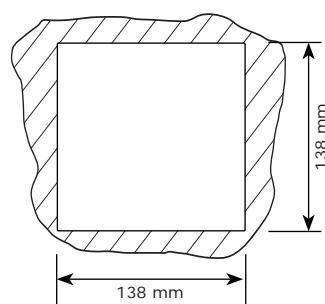
REAR FACE :



J2005RS / J2405RS

CUT-OUT :

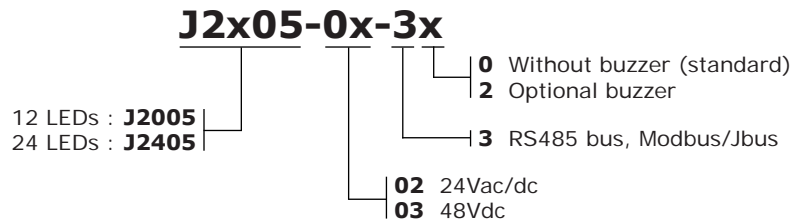
144x144 DIN format



SPECIFICATIONS :

Possible voltages	24Vac/dc, 48Vdc +/-30%
Consumption	10mA per LED + 7mA per relay
RS485 insulation	1500V + protection against line spikes (using CTP and Transil) and charge faults
Temperature	-20°C / +60°C (at nominal voltage)
Humidity	90% noncondensing / 70% during storage
Transfer relay	1RT 6A/12Vdc - 0.15A/240Vac
Auxiliary push button	6A/12Vdc - 0.2A/250Vac
Weight	750g
Dimensions	144 x 144 x 67 mm
Protection without cover	IP52
Protection with cover	IP54 (M0720, M0721)

ORDER REFERENCES :



Example :

J2405-03-32, J2405 (24 LEDs), 48Vdc powered with buzzer as an option.

COMPLEMENTARY PRODUCTS :



M0800
M0815

M0800 19 inch brushed aluminium front, Ht : 4U

For bay, 3 pre-drilled holes 138x138mm.

M0815 cover mask 144x144

Fitting to M0800 front.



M0720

M0720 IP54 sealed front

«quarter-turn» closing button 144x144 format.

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.

Refer to «Accessories» chapter of our catalog.

COMPLETE TECHNICAL ALARM CENTRALISATION :

The PANEL'PC is an alarm centralizer on a RS485 Bus.

It can manage 64 panels with 12 alarms each.

Its touch screen allows to perform all necessary operations without additional keyboard (RESET, operator assistance display, historic, archiving).

It may refer alarms and remote information to other sub-stations.

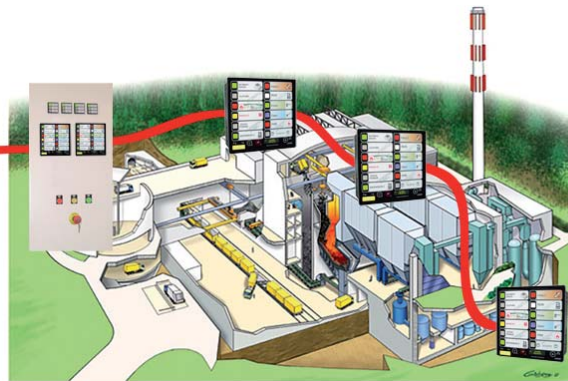
It can be used either in a sub-station or control room :

- In local sub-station front cabinet, for monitoring alarms and local states, with historic for traceability.
- In control room with clustering by bus of local alarms panels.
- Possible transfer to other sub-stations.

**It is very easy to realize
a technical alarm management unit by BUS :**

Possibility of using modules equally :

- J3500/J3105/J3000 technical alarm automatic panel.
- J2x05RS indicator display receiver panel with 12 or 24 LEDs.
- PANEL'PC.



RS485 bus / 1km / fitted with 64 modules as a maximum

PANEL'PC :



The PANEL'PC integrates :

- Alarm display with «RESET» directly on the screen.
- Operator assistance or instructions for each inputs indicating to operator how to proceed depending on the alarm present.
- Display of historic periods.
- Re-display of the historic of a recorded period (10,000 pages possible).
- Printing in continuous with time stamping.
- Remote alarm reporting to one or several indicators display by BUS (for example, guard posts, technical service, control room).
- Remote outputs possible.
- Archiving on USB key.
- Login with several safety levels.