



Chassieu September 17, 2003

8E /24S BOARD

**INDICATORS
IDE / IDX**

Software No.	Manual Reference	Edition
	OPT_Gb_8E-24S board_rev00.doc	00



ARPEGE AIMO



**L'INFORMATIQUE
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PROMOTION**

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SPECIFICATION OF THE 8E/24S BOARD INDICATORS IDE /IDx

Date	Edition No.	Subject of the modification
17/06/2002	00	Original

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1. GENERALITIES

The interface 8E / 24S connected to the indicator (Ide or IDX (Via ESD) may be commanded by the software type « INDUSTRY », or by other weighing software.

It allows to manage 24 dry contacts free of all potential.

It allows to manage 8 inputs optically coupled.

2. RELAYS INTERFACE

2.1. Outputs

The outputs S1 to S24 are available on a terminal connector.
They are regrouped with a common for 4 outputs.

Output characteristics :	Maximum voltage	: 48 V in DC or AC
	Courant Max	: 1 Ampere in AC
		0,5 Ampere in DC

2.2. Inputs

The inputs E1 to E8 are available on a terminal connector.
They are regrouped with a common for 4 inputs
They must be supplied with a DC voltage, regulated and filtered under 48 Vdc Max.
The input resistors depend on the command voltage.
In standard : 24 Vdc, 10 mA per input.

2.3. Affectation

The affectation of the inputs / outputs depends on the software of the indicator.

2.4. Watch dog

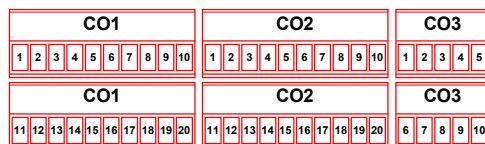
The relay of the watch dog is activated (contact closed), in normal operation.
It is inactive (contact opened) in the following cases :

- ☐ When the indicator is off.
- ☐ During the reset stage of the indicator.

3. CONNECTION / JOINING

3.1. Connection

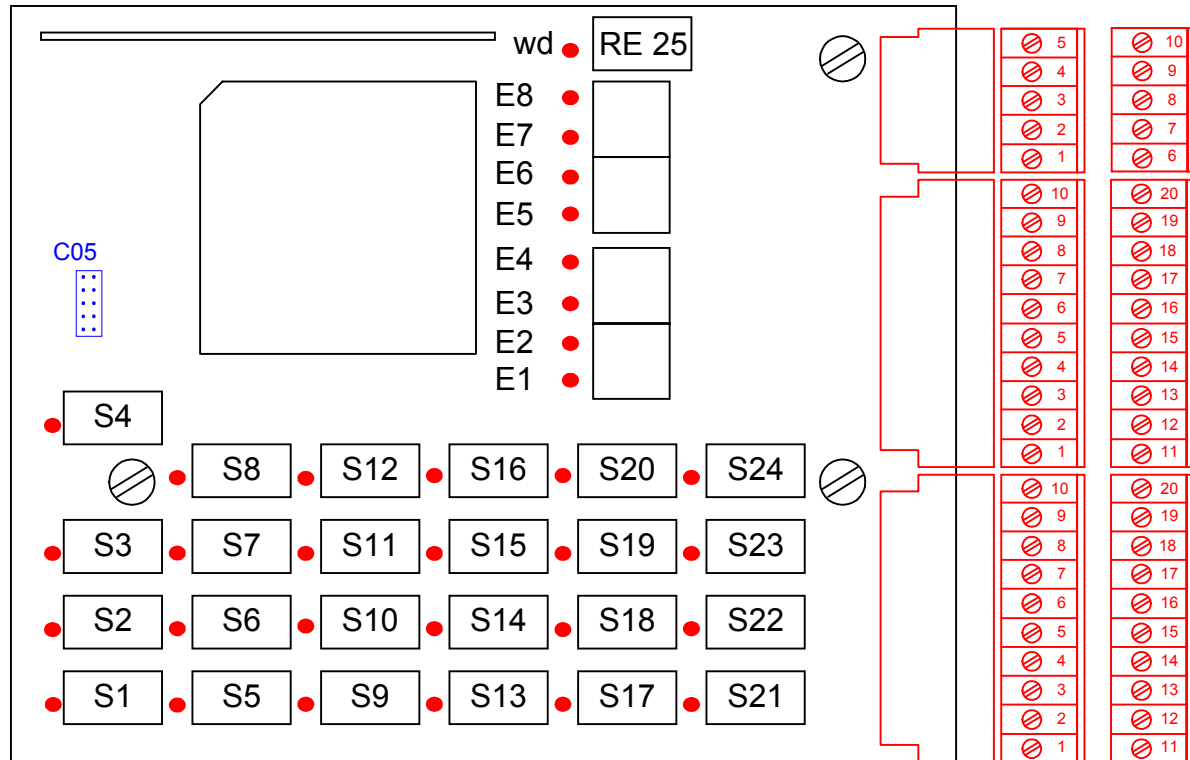
Unpluggable connector
Maximum diameter : mm2



		I / O	TERMINALS	DEFINITION	
24 OUTPUT RELAYS		C1	CO1 - 11	COMMON 1	CO1
		S1	CO1 - 12		
		S2	CO1 - 13		
		S3	CO1 - 14		
		S4	CO1 - 15		
		C2	CO1 - 16	COMMON 2	
		S5	CO1 - 17		
		S6	CO1 - 18		
		S7	CO1 - 19		
		S8	CO1 - 20		
		C3	CO1 - 1	COMMON 3	
		S9	CO1 - 2		
		S10	CO1 - 3		
		S11	CO1 - 4		
		S12	CO1 - 5		
		C4	CO1 - 6	COMMON 4	
		S13	CO1 - 7		
		S14	CO1 - 8		
		S15	CO1 - 9		
		S16	CO1 - 10		
8 INPUTS OPTICALLY COUPLED		C5	CO2 - 1	COMMON 5	CO2
		S17	CO2 - 2		
		S18	CO2 - 3		
		S19	CO2 - 4		
		S20	CO2 - 5		
		C6	CO2 - 6	COMMON 6	
		S21	CO2 - 7		
		S22	CO2 - 8		
		S23	CO2 - 9		
		S24	CO2 - 10		
		C1	CO2 - 11	COMMON 1	
		E1	CO2 - 12		
		E2	CO2 - 13		
		E3	CO2 - 14		
		E4	CO2 - 15		
		C2	CO2 - 16	COMMON 2	
		E5	CO2 - 17		
		E6	CO2 - 18		
		E7	CO2 - 19		
		E8	CO2 - 20		
		+V	CO3 - 1	USE RESERVED	CO3
		+V	CO3 - 2	USE RESERVED	
		0V	CO3 - 3	USE RESERVED	
		-V	CO3 - 4	USE RESERVED	
		-V	CO3 - 5	USE RESERVED	
		+V	CO3 - 6	USE RESERVED	
		0V	CO3 - 7	USE RESERVED	
		1	CO3 - 8	USE RESERVED	
		2	CO3 - 9	USE RESERVED	
		-V	CO3 - 10	USE RESERVED	

4. MATERIAL CONFIGURATION

There is no jumpers on the board, the connector CO5 is reserved for an internal use at MASTER K



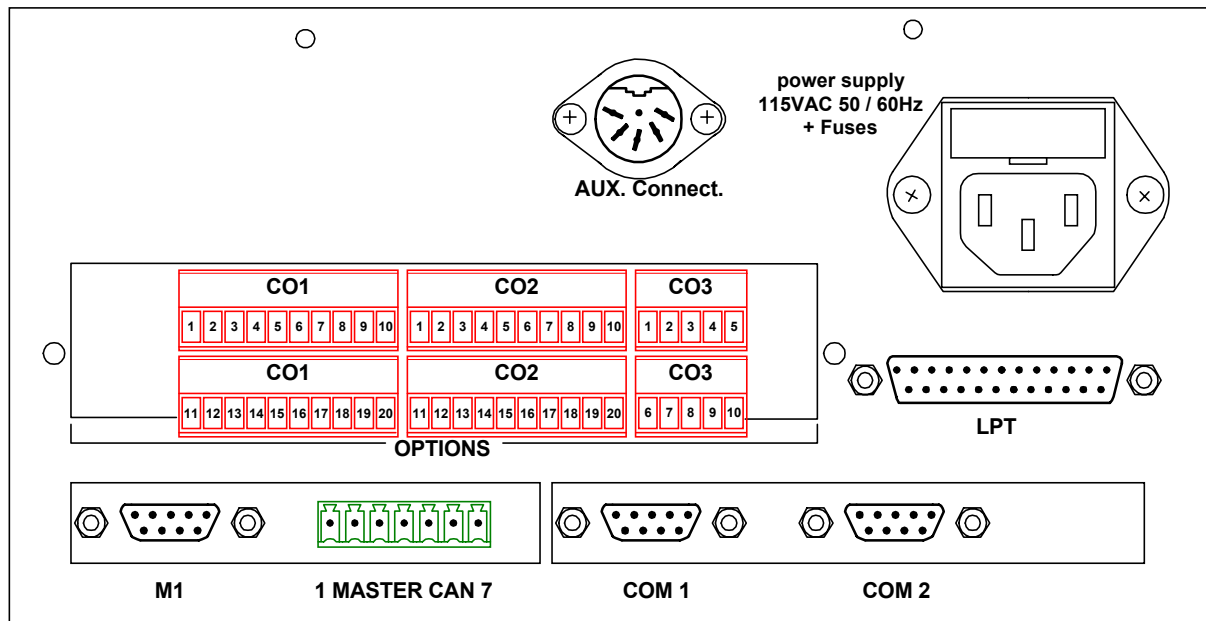
The leds S1 to S24 indicate the status of the outputs.

The leds E1 to E8 indicate the status of the inputs.

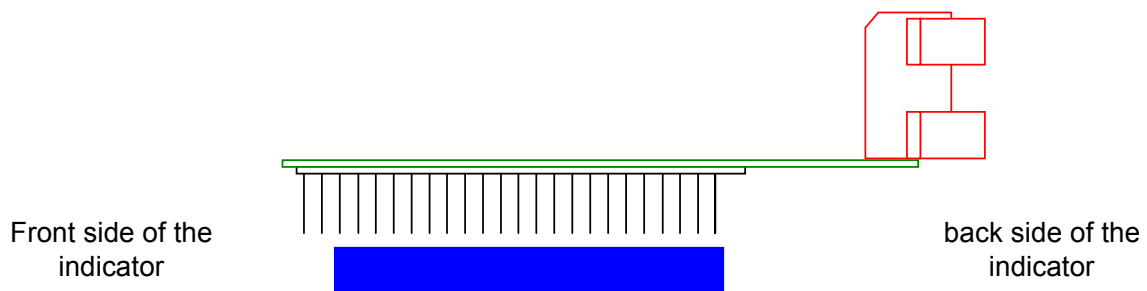
The led Wd indicates the status of the Watch Dog .

5. IMPLANTATION

5.1. Implantation in an Ide

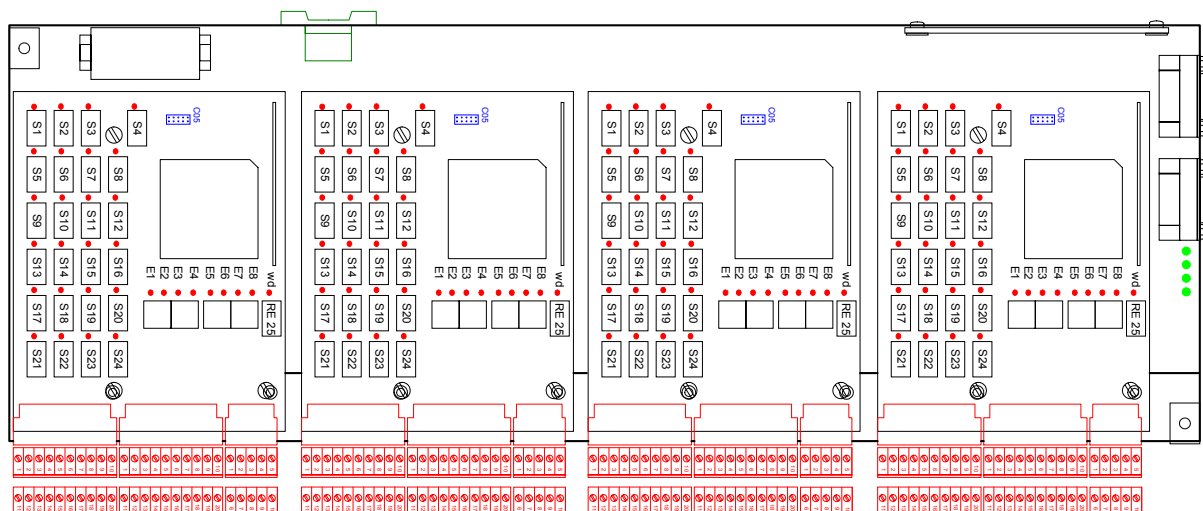


Remark : If the connector of the mother board includes only 22 points
You must insert the board by shifting 2 spikes as seen below.



5.2. Implantation in an IDX (Remote Inputs Outputs Box)

Top view of the opened box



View of the connectors' side of the closed box

