



## The 8 Input / 8 Output Expansion Board For the UC112 / UC122

This board is not compatible with the CN110 or the UC312



### Description

- The 8 Input / 8 Output Expansion Board is an optional board (in addition to the 6 Input / 2 Output standard to the machines referenced above). The **inputs** are **opto-isolated**. The **outputs** are **dry-contact relays**.
- The kit contains:
  - The 8 Input / 8 Output Memory Expansion Board.
  - A 3-meter SubD9M / SubD15F cord that connects the UC and the I/O board.
  - Phoenix set-screw connectors to connect the 8 Inputs / 8 Outputs to the external controls.
- There are many different ways to fasten the components together:
  - You can use the 35 mm 46 277-3 DIN rail to attach the board inside of a cabinet.
  - Or you can use the 4 holes with a 5 mm diameter (see the enclosed scale drawing).
  - Or you can install the board on a stand.

### Use

- The board is mainly used to **select marking files** by connecting the following to the UC112 (among other things):
  - A thumb wheel,
  - Or a programmable controller (PLC).
- The marking files are saved in the UC112's memory. You can program the files by using the T101W standard marking software or by directly using the UC112's internal T01 program.
- You can also create small motor controls exterior to the marking machine and drive the relay outputs to control indicator lights or machine inputs, for example.

## Programming

The logical state of each of the Inputs can be accessed by using an instruction set. The Outputs can be individually activated or deactivated.

Description	Instruction
<ul style="list-style-type: none"> <li>▪ <b>Selecting a file</b> among many (from UC112 or UC122 memory)</li> </ul>	BRANCH
<ul style="list-style-type: none"> <li>▪ <b>Waiting for an input</b></li> </ul>	
<ul style="list-style-type: none"> <li>▪ <b>Activating / Deactivating an output</b></li> </ul>	

## Installation

Installation is very simple:

- Connect the board to the SubD9F external connector of the UC112 (or the UC122).
- Plug and Play: the board is automatically recognized when the UC starts up.

## Technical specifications

- The maximum number of addressable files is :
  - with the internal board 6 I / 2 O :  $2^6 - 1 = 63$
  - with the external board 8 I / 8 O :  $2^8 - 1 = 255$
  - limited to the size of the UC112's memory (it is not possible to cumulate the 6 Inputs + 8 Inputs for file selection).

A linear marking file, made up of 1 block of 10 characters, using basic parameters, takes up around 210 memory bytes. The following block takes up around 104 extra bytes.

- The 8 inputs are opto-isolated.  
They are divided into two groups (« A » and « B ») of 4 inputs with 2 shared points per group.  
Each input group can be controlled by NPN or PNP sensors. The inputs can be supplied by:
  - . either the 24VDC voltage available on the 8I/8O board (200mA max. fuse) (in which case the inputs are no longer opto-isolated),
  - . or an external power supply (see Table).
- The 8 outputs are « dry contact, normally open ». They are divided into two groups (« A » and « B ») of 4 outputs with 2 shared points per group.

	8 Inputs	8 Outputs
Min. input voltage (Vdc)	12VDC	////////////////////////////////////
Max. input voltage (Vdc)	48VDC	////////////////////////////////////
Consumption per input	5mA@12VDC 12mA@48VDC	////////////////////////////////////
Type of input per group	NPN or PNP (according to where it is plugged in)	////////////////////////////////////
Type of output per group	////////////////////////////////////	dry contact N.O
Max. switchable intensity for 1 output	////////////////////////////////////	1A@24VDC
Power supplied by 8I/8O board (Vdc)	24VDC (200mA max.)	
Fuse	200mA, 5x20 delayed	

## Reference

SEUC001/194: 8 Input / 8 Output board (dry contact) for the UC112/UC122  
(to order at the same time as a new UC112)

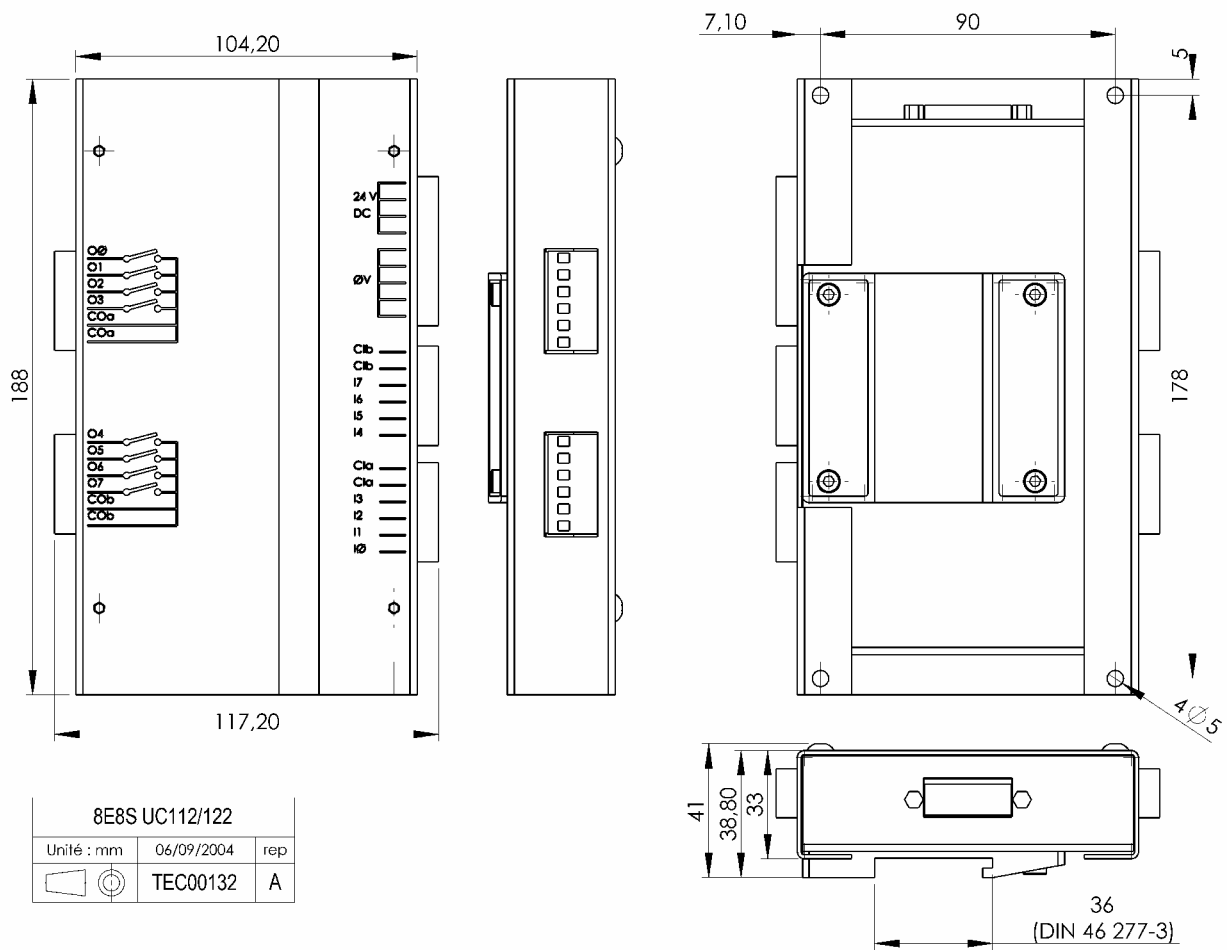
SEUC001/193: 8 Input / 8 Output board (dry contact) for the UC112/UC122  
(for the UC112 that the user already owns – Must be installed by Technifor personnel)

**Note: This option is available:**

- On all of the UC112.
- On the UC122 delivered after 01/01/2005 (former UC122 : contact us).
- **V6.5.0** internal program version at the minimum.

Contact us if this is not the case for you.

## Scale Drawing



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