



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

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)

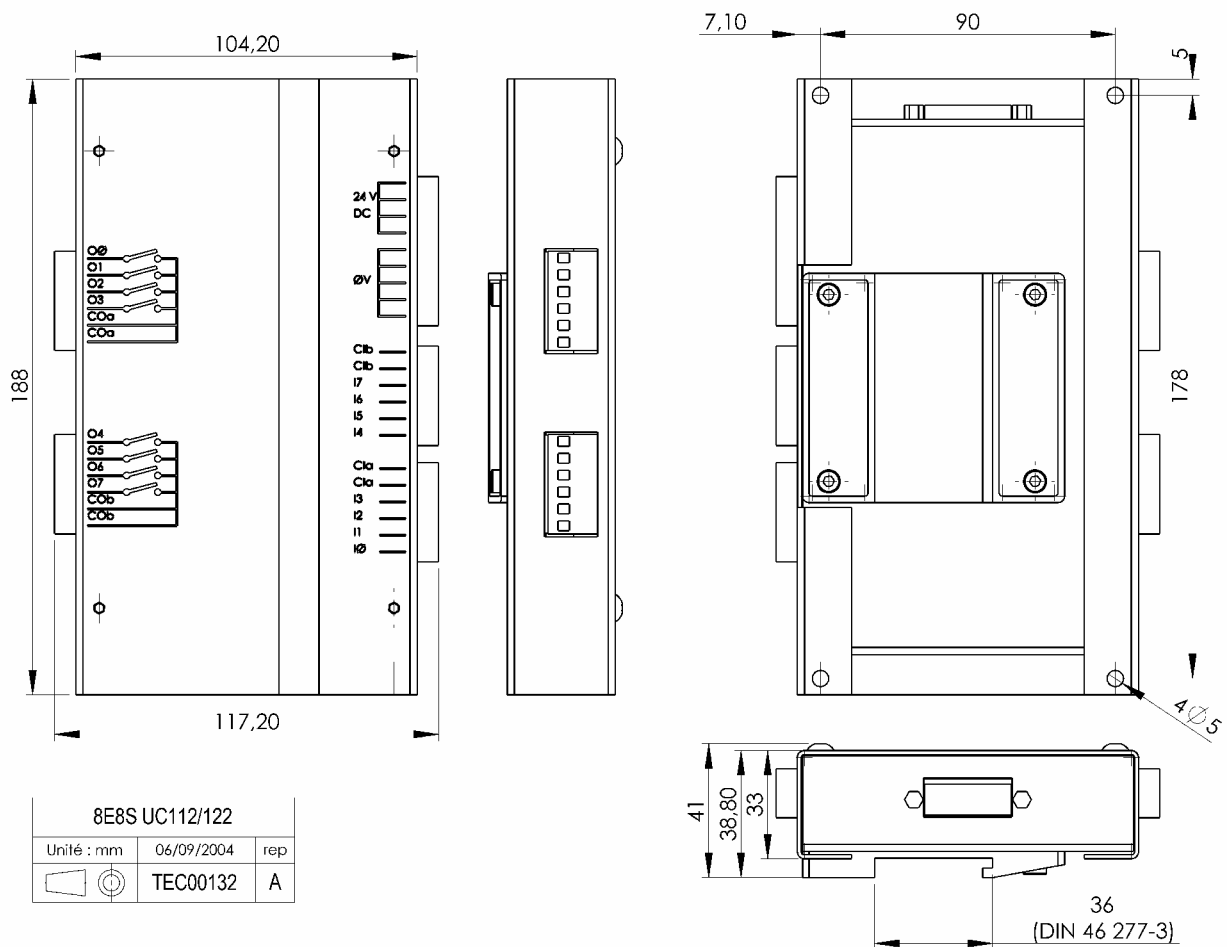
SEUC001/193: 8 Input / 8 Output board (dry contact) for the UC112/UC122
(for the UC112 that the user already owns – Must be installed by Technifor personnel)

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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