

Terwin Model μ 400P, μ 600P, μ 500PT & μ 700PT Analogue Output Module Instructions

Read the instruction manual before applying power to the instrument!

Note: Please refer to the μ 400P, μ 600P, μ 500PT & μ 700PT manual version E, Section 3.5 page 13 for the definitions for values assigned to "Opt" and "AOut.S".



Installation

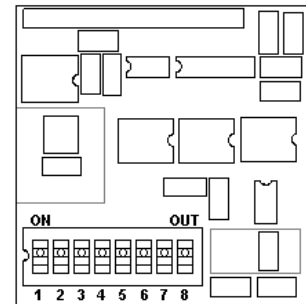
- The following recommendations should be followed as far as possible:
- The output module must be connected to the μ 400P, μ 600P, μ 500PT or μ 700PT without power applied to the instrument.
- For the signal lines, it is recommended to use a screened cable with a ground connection at a single point.

Any installation or use of the instrument other than that specified in this manual may affect the protection levels of the unit and warranty.

Configuration

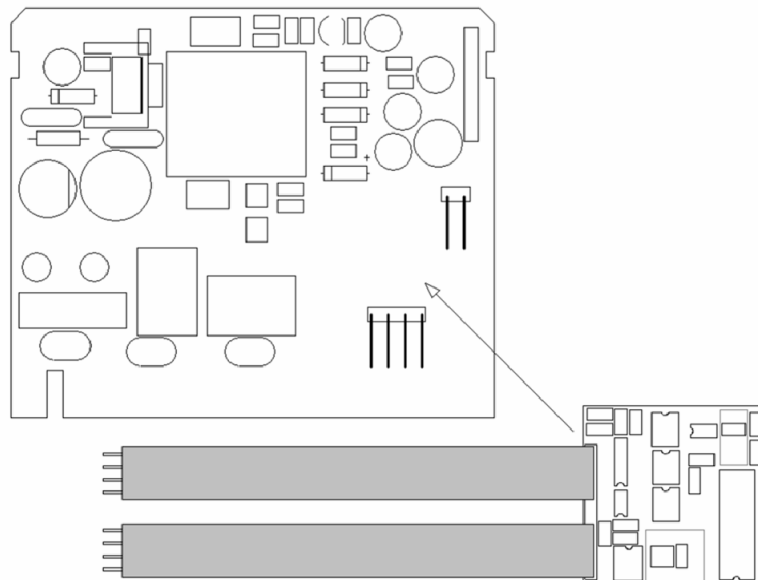
The required output type (i.e. 0-10V or 4-20mA) must be set before installing the module into the μ 400P, μ 600P, μ 500PT or μ 700PT indicator. Use the DIP switches located on the output module as shown opposite and below:

0 or 4 to 20mA	2, 3, 7 ON
0 to 5V	1, 4, 6, 8 ON
0 to 10V	1, 4, 5, 8 ON

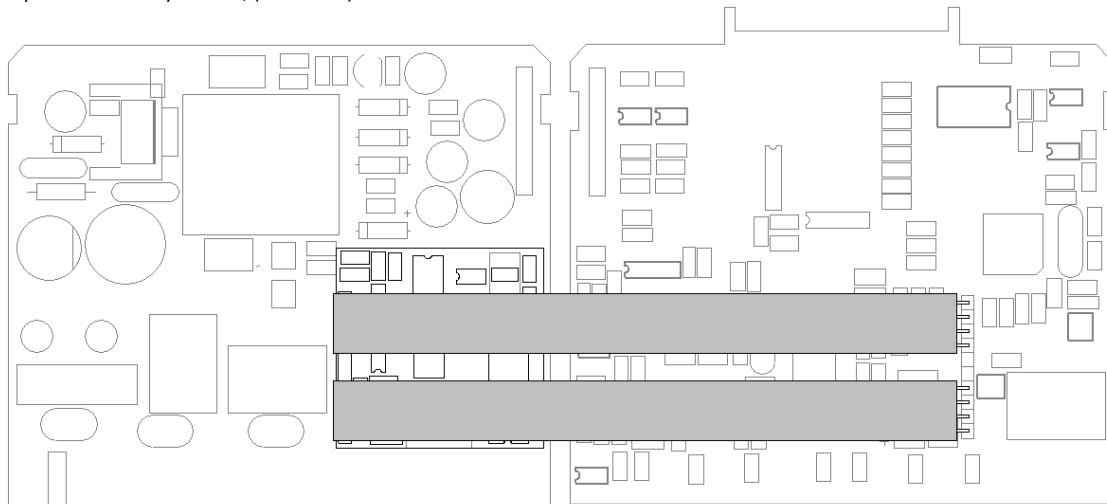


Before installing the μ 400P, μ 600P, μ 500PT or μ 700PT Output Module, the indicator must be extracted from its enclosure and the board with output connectors must be identified.

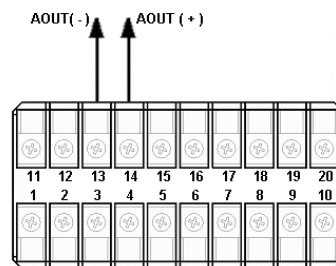
Install the μ 400P, μ 600P, μ 500PT or μ 700PT Output Module carefully. Ensure that all pins on the μ 400P, μ 600P, μ 500PT or μ 700PT main board fit into the output module connector slots, (see below):



Plug the μ 400P, μ 600P, μ 500PT or μ 700PT Output Module ribbon cables to the μ 400P, μ 600P, μ 500PT or μ 700PT main board, ensuring that the pins are correctly located, (see below):



Once installed the analogue output signal is available from terminals 13 & 14 as detailed below:



Setup

The menu option "OPT" activates and selects the desired output type. The output value is undefined until the module is activated.

2	Analogue output 0 to 5V
3	Analogue output 0 to 10V
4	Analogue output 0 to 20mA
5	Analogue output 4 to 20mA

When one of these options is selected the following menu items will be enabled allowing the setup of the module operation mode.

Set.Ch	Channel associated to analogue output (μ 500PT & μ 700PT)	
AOut.S	Analogue output sign	
	<i>Value</i>	<i>Operation</i>
	0	Direct output
	1	Inverted output
AOut.L	Analogue output low limit	
AOut.H	Analogue output high limit	

Technical specifications

Isolation	Galvanic isolation from μ 400P, μ 600P, μ 500PT or μ 700PT instrument inputs
Ambient Temp.	0 to 50°C (internal)
Relative humidity	Max. 80% without condensation
Current output	Max. Impedance: 500 Ohm
Voltage output	Max Current: 22mA
Accuracy	\pm 0,25% full scale value
Resolution	12 bits