



ITV-100 VL



6.5 Launch self-tuning function

When use the instrument for the first time, it's a must to use the self-tuning function of the instrument to determine control parameters (M50, P and T) for an ideal control effect. Press "v" key for over 2 seconds, then the SV window will display characters "A" and "T" alternately, and the system will enter self-tuning mode. When self-tuning, the temperature controller will conduct digital adjustment. After oscillation for 2 to 5 times, the instrument will automatically set the PID control parameters (parameters M50, P and T).

After self-tuning, the system will return to PID automatic control mode.

During self-tuning, press "v" key for over 2 seconds to cancel self-tuning, then the characters "AT" displayed in SV window will disappear.

Attentions: for temperature controller which had run self-tuning before, it's a must to set parameter Ctrl. as "2" before launching another self-tuning (please refer to section "parameters setting and definition" in this manual for detailed operation). The control parameter value will vary according to setting temperature, therefore, it's a must to run self-tuning with the most frequently used setting value of the system. If the setting value often changes, run self-tuning with the middle value of setting values.

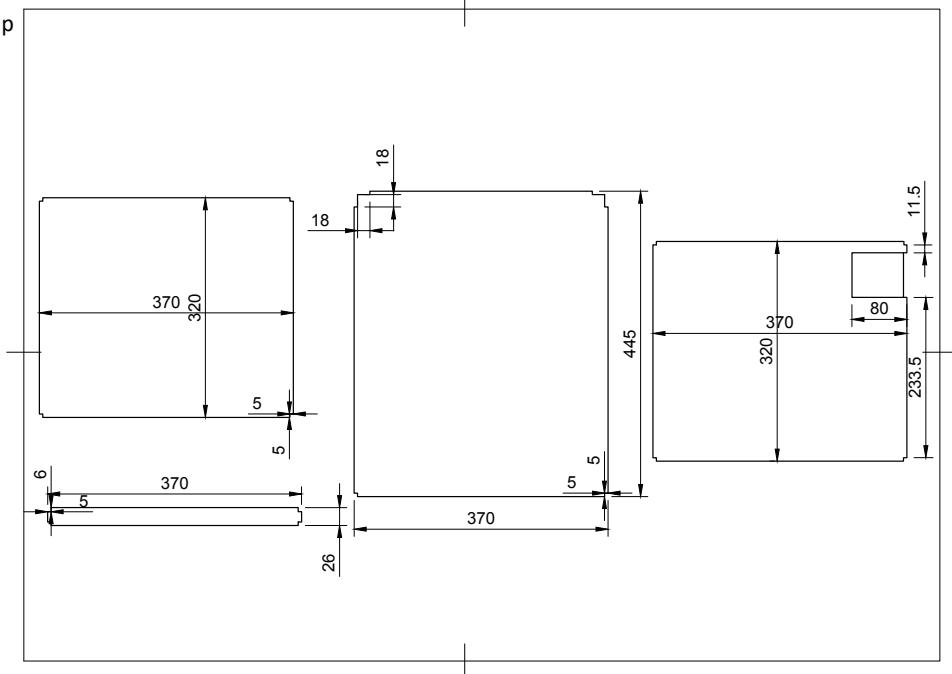
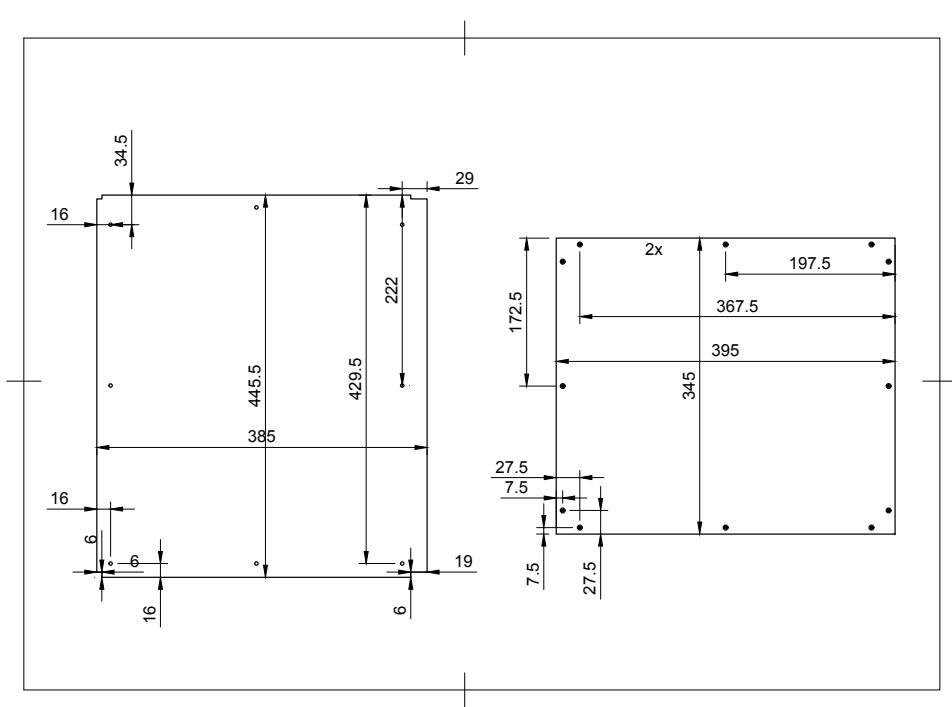
6.9.1 Sensor type input "Sn"

Table 4: sensor input code and measuring range

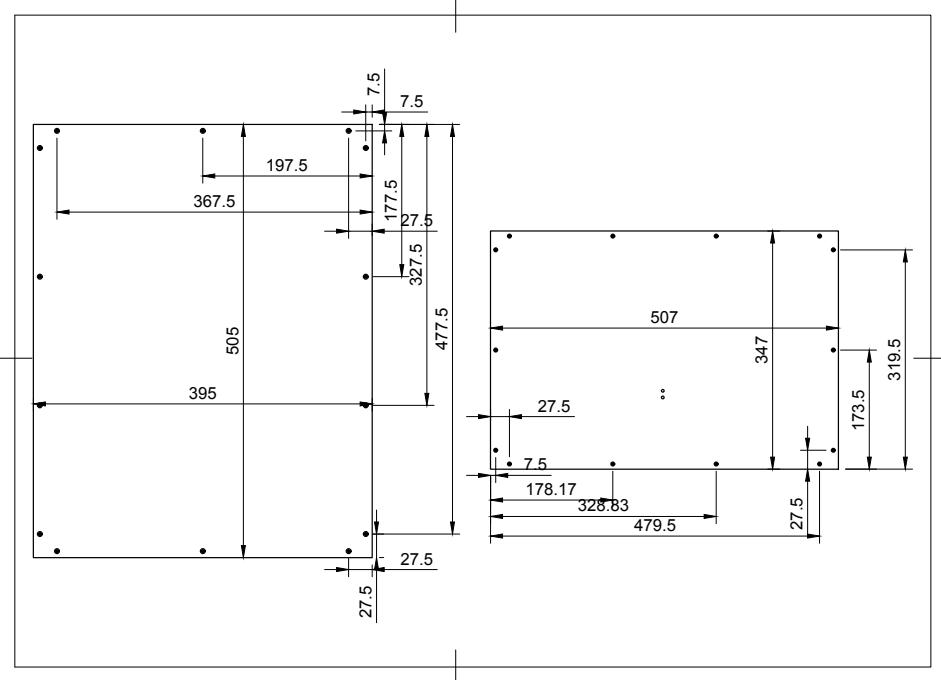
Sensor type	Input	Code	Measuring range
thermocouple	K	0	-50~1300 °C
	S	1	-50~1700 °C
	WRe	2	-0~2300 °C
	E	3	-2000~350 °C
	J	4	0~1000 °C
	T	5	0~1000 °C
	B	6	0~1800 °C
	N	7	0~1300 °C
Copper resistor	Cu50	20	-50~150 °C
Platinum resistor	Pt100	21	-200~600 °C

Polypropylen

6mm honeycomp

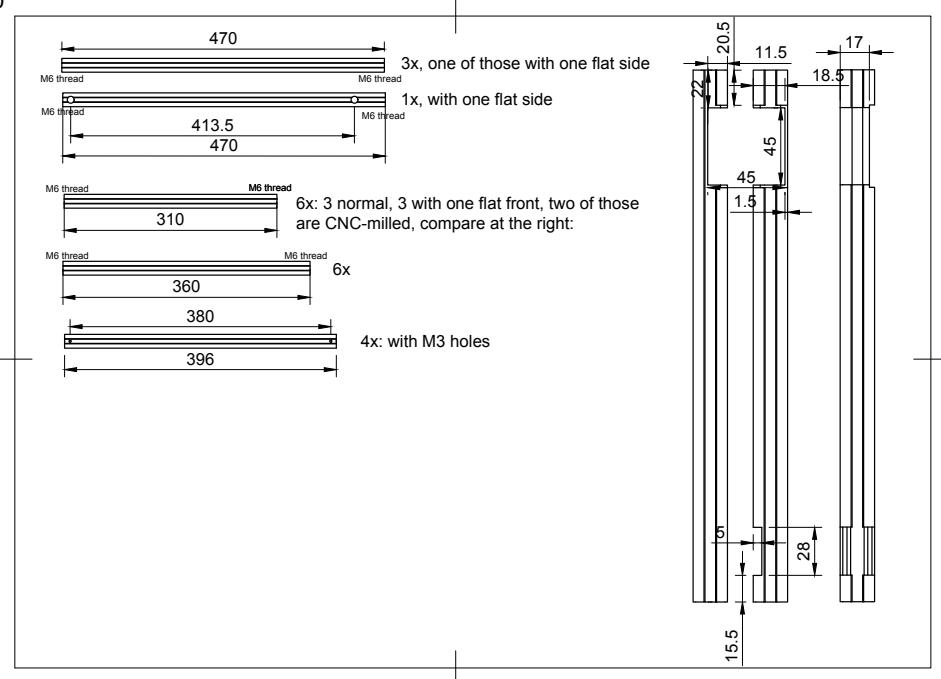
Stainless steel
0.8mm

Stainless steel
0.8mm



Bosch 6 nut 20x20
aluminium profile

Warning: two of
the profiles are
CNC milled to have
space for the
ITC-100.



Acrylic glas
(Plexi glas)
5mm

Optional milled
1mm deep holes
for the magnet.
Can also be glued
onto the surface.

