



The Ergo 7 Controller, together with the Hand pendant 951-0012 and the inter-connection kit 951-0102, are designed exclusively for the Ergo Control positioner. There is also a Program Selector unit 951-0104 that can be fitted in the Power and Connector panel.

The controller has the following functions:

- 32 opto-isolated digital inputs.
- 16 relay outputs.
- 4 analog 0-10 volt outputs.
- 4 position decoder and counters.
- Safety circuits for the emergency stop function with 2 external contactors to break the 3-phase power lines.
- Safety circuits for the pedal.
- Opto-isolated communication with hand pendant.
- Com-port for connection with PC. Used with the program ErgoCom.
- 2 timer relays in safety circuits to make sure that the machine stops within 0.5 seconds.
- Memory for 1000 program steps. Can be divided into several programs.
- Memory for parameter settings such as acceleration and deceleration ramps.

The Ergo Control positioner normally has 3 axes, X, Y and Z. A fourth axis F, can act as a parallel follower (separate machine) to the X axis.

The controller continually counts pulses from up to four incremental position encoders.

With the key in PROG-mode, the machine can be run manually with the hand pendant to any position for all axes. These positions can be stored in up to 1000 memory steps where the position counter values for X, Y and Z is stored in each step, together with a function code and individual speed values.

The 1000 steps can be divided into several programs or jobs where function codes controls the start and end step. The speed values are normally set to 100% but can be reduced for individual steps and axes.

With the key in AUTO-mode, each pedal press runs the machine to the next steps saved position. One step at a time.

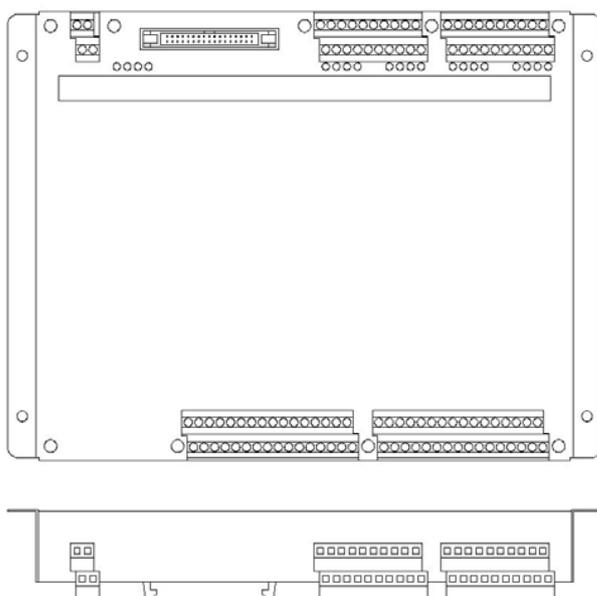
The machine stops when all axes have reached its programmed positions. The machine will also stop if the pedal is released but continues when pressed again.

Safety circuits for emergency stop and pedal meets all applicable EN safety standards. All safety circuits have two monitored channels and if one of them fails the machine cannot be started.

Technical data (controller)

Enclosure	IP 20, steel, powder coated in RAL7035.
Dimensions W x H x D	285 x 218 x 45 mm.
Temperature range	-5 till +45 °C.
Operating voltage	24 volt DC.
Power consumption	75 Watts max. Use a 100 Watt power supply.
Digital inputs	32 opto-isolated, 24 volt DC 10 mA, for sensor of PNP-type. Many of them used internally.
Relay outputs	16 signal relays 24 volt DC 1 Amp.
Analog outputs	Four 0 – 10 volt for speed control.

Controller



Power and connector panel

