

THESI 310 – Single-axis position controller

New

- THESI 310 position controller can control shifting and positioning of one axis in 3 different operating modes:
 - MANUAL or SEMI-AUTOMATIC by keyboard.
 - AUTOMATIC on the basis of a memorized program.
- Memorization of up to 99 PROGRAMS with 20 positions each. Up to 99 repetitions can be matched to each position (the program cycle is composed by the position and its respective repetitions).
- 90 Vac to 230 Vac power supply or 24 Vac power supply with selector.
- Manufactured with 16 bit microcontroller, 256K FLASH and 8K RAM memory in single-chip mode.
- Optoisolated inputs
START, STOP, INCREASE CYCLE, DEVIATION, PRESET.
- Voltage-free contact outputs
OK POSITION, ENABLING WITH CONTROL INTERLOCK
FEED / BACK, SLOW / FAST.
- ± 10 Vdc analog output
FEED / BACK, SLOW / FAST.
- Can be installed on bench or built in.

THESI 310 DI

With relay outputs (digital)

Display	POSITION: 6 high-efficiency digits h = 13 mm and negative sign CYCLES: 2 high-efficiency digits h = 9 mm PROGRAMS: 2 high-efficiency digits h = 9 mm
Signal input per axis	2 square waves out of phase $90^\circ \pm 10^\circ$ and zero ref.
Axis input frequency	20 kHz _{MAX}
Linear resolution	200 - 100 - 50 - 20 - 10 - 5 - 2 - 1 μ m
Protection class	keyboard IP 65 rear panel IP 40
Encoder power supply	5 Vdc or 12 Vdc 120 mA _{MAX}
Power	10 W _{MAX}
Power supply	90 to 230 Vac $\pm 10\%$ - 50/60 Hz 24 Vac $\pm 10\%$ - 50/60 Hz
Digital outputs	N.O. relay contacts
Inputs	optoisolated
Connections	by removable terminal block
Dimensions	front panel: 72x144 mm – depth: 126 mm



THESI 310 AN

With analog output

Display	POSITION: 6 high-efficiency digits h = 13 mm and negative sign CYCLES: 2 high-efficiency digits h = 9 mm PROGRAMS: 2 high-efficiency digits h = 9 mm
Signal input per axis	2 square waves out of phase $90^\circ \pm 10^\circ$ and zero ref.
Axis input frequency	20 kHz _{MAX}
Linear resolution	200 - 100 - 50 - 20 - 10 - 5 - 2 - 1 μ m
Protection class	keyboard IP 65 rear panel IP 40
Encoder power supply	5 Vdc or 12 Vdc 120 mA _{MAX}
Power	10 W _{MAX}
Power supply	90 to 230 Vac $\pm 10\%$ - 50/60 Hz 24 Vac $\pm 10\%$ - 50/60 Hz
Analog output	± 10 Vdc optoisolated
Inputs	optoisolated
Connections	by removable terminal block
Dimensions	front panel: 72x144 mm – depth: 126 mm

