



COMPACT-POSITIONING-SYSTEM CPS20

Free programmable CNC controller for
universal applications with
position controlled drives.



CE

CPS 20 Compact- Positioning- System

Keyboard panel, position controller and processing unit are combined to a very compact device, therefore easy to embed in a control console or a 19" rack.

Built in digital position controller with linear ramp or, for softer acceleration, with \sin^2 -shaped ramp.

Easy and comfortable handling and programming by keyboard and menu-based clear text display (no codings).

Application fields include particularly specialized machinery and production machinery. Special purpose programs for applications like rotary indexing tables or roll-feed-machines (and more special applications) are available.

Main Features:

- mode selection by menus
- clear text display (illuminated)
- auto starting up to reference point selectable
- automatic or manual mode of operation
- free programming of all parameters
- password protected machinery parameters
- machinery-specific adaptations
- 90 programs
- 180 sets (extendable up to 800) (safe against power failures)
- acceleration ramp and deceleration ramp programmable
- linear oder \sin^2 ramp for choice
- velocities free programmable
- incremental position acquisition
- error diagnosis with messages in clear text
- high noise immunity through electrically insulated inputs and outputs
- short-circuit-proof transistorised outputs
- plug and socket connections for ease in handling

Options:

- absolute position acquisition (SSI-Interface)
- analog input (12 Bit resolution) for position acquisition or special application
- second incremental encoder interface for a separate cyclometer or handwheel
- RS232 (CCITT V24) Interface

Technical characteristics CPS 20

number of axes	1	max. velocity	500m / min at 0,1 mm resolution
input display	film keyboard LCD - Display (clear text) 2 x 24 char.illuminated	max.incremental encoder frequency	250kHz (internally multiplied with 4)
programs in memory	90	position acquisition	incremental, absolute (SSI-Interface), analog (12Bit resolution)
programmable sets	180 (extendable up to 800) safe against power failure	signal inputs	8 inputs 24V 10mA (extendable to 10 inputs)
gear ratio	6 digits (decimal)	signal outputs	6 outputs 24V 1A (extendable to 10 outputs)
reference point move	yes	analog output connections	+/- 10V (12Bit resolution) solderless plug/socket conn.
pulse start	yes	power supply	24 V DC (+/-20%) approx. 0.3 A; Option: power supply 220V 50 Hz
start timing check	yes	ambient temperature	0 to +45° C
stop with subsequent position correction	yes	size (w * h * d)	213 x 129 x 75 mm
error diagnosis	clear text messages		
linear ramp	yes		
\sin^2 ramp	yes		
acceleration and deceleration ramp	10 - 10000 ms		