



## Uniaxis Positioning Control Processor System MCC 144

### > POSI 3001

#### Application

Point to point control for drives control with determined speeds f.e.

- > positioning drives
- > pole-changing drives

#### Aiming point calculation

- > Absolute positioning  
in relation to the absolute zero point
- > Relative positioning  
in relation to the precedent position

#### Construction

- > Keypad with tactile feedback
- > Hardware in standard housing 144 x 144 mm
- > Software modular with various options

#### Encoder

- > incremental, K1, K2, K0
- > Power supply from POSI

#### Resolution

- > 999.999 path-elements

#### Input frequency

- > 3 kHz

**Control inputs**      Low 0-2V      High 9-30V  
Input impedance 2,2 kΩ

- > Automatic
- > Start und Stop, 1x per item
- > External program call-in
- > Calibrating

#### Control outputs

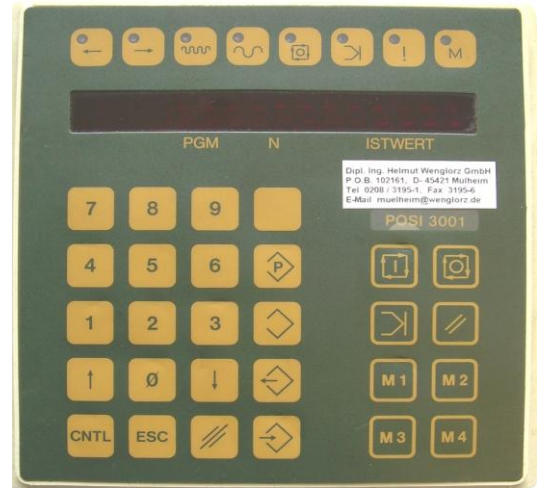
- > potentialfree NO  
6A / 250VAC / 1250VA / 150 W
- > Right and left
- > Rapid running and slow running, 1x per item
- > Stop
- > Program end
- > Machine function
- > Trouble
- > Further outputs as option

#### Display

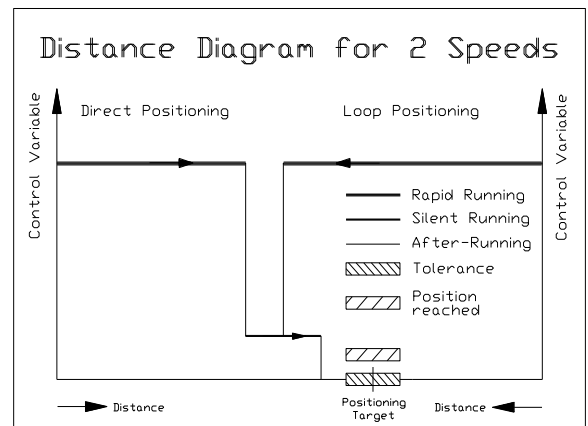
- > 12-dec, alphanumeric
- > Target and actual values
- > Status message and trouble report
- > Text information for operating

#### Monitoring the system and peripheral equipment

- > Power supply
- > Battery voltage



Flush mounting 144 x 144 mm, System MCC 144



Distance diagram

- > Processor routines
- > Encoder

#### Program flow

Der Program flow is determined by input of

- > Parameter
- > Data

#### Parameter f.e.

- > After-running
- > Changing of rapid running and slow running
- > Calibrating position
- > Home position
- > Positioning accuracy
- > Pulse factor
- > Absolute or relative positioning
- > Waiting time
- > Time after position reached
- > Positioning mode (loop big or small, right or left)



**System Data f. e.**

- > Program no
- > Step no
- > Distance
- > Cutting measure
- > Number of pieces
- > Initial measure
- > Total measure
- > Machine function

**General Data**

- > Power supply 24V AC or DC
- > Current consumption 350 mA  
without encoder, output not operating
- > Data protection for 5 years by Lithium battery
- > Connection on the back with connectors
- > Type of protection IP 55
- > Allowable ambient temperature 0-55 °C

**Dimension**

- > Width x High = 144 x 144 mm
- > Depth = 138 mm additional connector 60 mm
- > Cut-out = 138,00 mm x 133,40 mm

**Standard Program Versions**

| <b>Automatic Programs</b>  |  |   |
|----------------------------|--|---|
| <b>Program No</b>          | <b>Version V 16, 80 Programs</b>   | <b>Version V 12, 80 Programs</b>  |
| <b>01 - 20</b>             | Positioning program<br>59 steps per program<br>Absolute or relative<br>Position target value 6-dec<br>Machine function   | Cutting program<br>Relative positioning<br>Home position or total measure<br>Cutting target value 5-dec<br>Piece target value 4-dec<br>Machine function |
| <b>21 - 40</b>             | Cutting program<br>Relative measure<br>Cutting target value 5-dec<br>Pieces target value 4-dec                           | Positioning program<br>20 steps per program<br>Absolute or relative positioning<br>Position target value 6-dec<br>Machine function                      |
| <b>41 - 60</b>             | Cutting program<br>Relative measure<br>Initial measure 6-dec<br>Cutting target value 6-dec<br>Piece target value 3-dec   | Cutting program<br>Relative positioning<br>Cutting target value 5-dec<br>Piece target value 4-dec   |
| <b>61 - 80</b>             | Option<br>Special applications   | as version V 16<br>Program no 41 - 60   |
| <b>Positioning by Hand</b> |  |   |
| <b>M1 - M4</b>             | Positioning program<br>1 program with 4 steps<br>Absolute or relative<br>Position target value 6-dec<br>Machine function | as Version V 16   |
| <b>M1, M2, M3, M4</b>      | Single positioning<br>Absolute or relative<br>Position target value 6-dec  | as Version V 16   |