

# Smart Process operated PID controller

LEISTUNG

## Smart Process operated PID controller

### Features:

- Status LEDs are integrated in a controller
- Function key and LED display for easy access parameters.
- Actual value and set value monitored on display
- Digital input signal available for automatic calibration
- Fail safe function in case compressed air and power supply failure (Optional)
- No air consumption in idle state
- Suitable for single acting linear actuator & double acting actuator
- Direct positioner mounting to valve actuator possible
- PID & Process PID control mode available
- PID and process PID tuning parameters available
- Application macro for flow/pressure/level/steam control with process feedback sensor
- Default parameter can load and save
- Automatically optimise the valve control during initialization
- Operational/function parameters can read & write via communication.
- Diagnostics, alarm codes, monitoring

### Technical Data

- Air input 100ml/min, 280ml/min
- Connection - M-12 8 Pin
- Power Supply - 24 VDC  $\pm$  10%
- Set Value Input - 4 to 20 mA
- Actual value input for positioner linear travel sensor (PID mode)
- Actual value input for process control - 4 to 20 mA (Process mode)
- Input signals - 1x digital input for initialization
- Output signals - 4 to 20 mA or 1x digital output
- Interfaces - Modbus RS485 2 wire
- Control air - 5 to 7 bar
- Total error -  $\leq$  1%
- Temperature range - 0 °C to 60 °C

### Advantages:

- Designed for simple, safe and quick use with valves
- Direct or remote mounting of positioner is possible
- Minimal operating costs, no air consumption when idle
- High air output for larger actuators
- Easy & fast commissioning
- Easy to connect & mount
- Accurate operation
- Pneumatic and electrical connections are in 360° direction to save space and enable easy access.
- Available during process output feedback parameters

