



THE NEW NENUTEC TECHNOLOGY: ELECTRONIC FAIL-SAFE[®]



Prime Tower Zurich CH: NENUTEC actuators for differential pressure systems.

By introducing the new Electronic Fail-Safe® (EFS) rotary standard actuators NENUTEC Switzerland opens up new possibilities in the field of HVAC –system protection. The Electronic Fail-Safe® (EFS) management for standard damper and valve actuators provides a reliably controlled powersupply with intelligent software, greentech electronics and selected capacitors. Engineered, designed and assembled by NENUTEC Switzerland to ensure utmost quality.

This new generation of actuators is operating in the same way as all standard NENUTEC actuators – with an additional extended emergency function. The innovative type of capacitors is ensuring sufficient power for the actuator during emergency situations to bridge short supply interruptions up to several seconds and to move the damper or valve into a pre-defined emergency position. (EPS)

In standby or holdover mode the power consumption is significantly reduced by intelligent actuator control.

Based on the proven elements of our new digital world it's time to replace the more than 30 year old mechanical technology of spring return actuators.

ELECTRONIC FAIL-SAFE®

NENUTEC'S NEW ACTUATOR GENERATION WITH SECURITY POSITION

Nenutec's latest Electronic Fail-Safe® actuator technology contains a power fail management.

These EFS actuators are working with the intelligence of a microcontroller and the power of the reliable and maintenance free capacitors and provide a solution for several applications in HVAC systems buildings, hospitals, pharmaceutical facilities, tunnels, greenhouses, finish paint industry. In the near future also for smoke and even fire-application.



Shopping center: EFS actuators are installed to maintain the security of the regular air handling units and air dampers.

TYPICAL APPLICATIONS FOR ELECTRONIC FAIL-SAFE® ACTUATORS

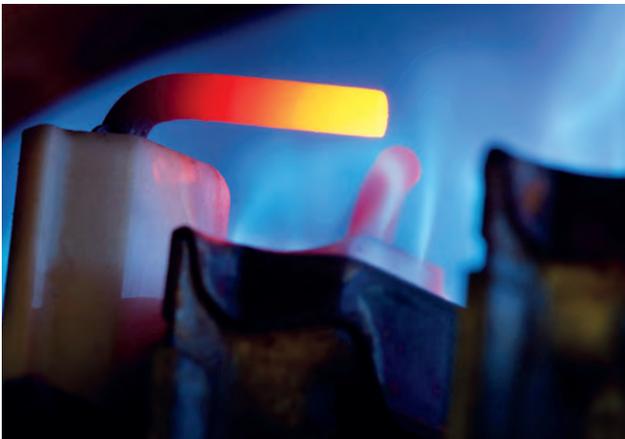
Various additional applications: There are many more applications where the intelligent management of security position brings advantages.



Hotel room ventilation: The supply air damper controls fresh air. The Electronic Fail-Safe® actuator manages power interruptions.



Freezing damage: Protection of water system air handling units and cooling circuits. No further energy losses.



Valve control: The power off security position may also be at the opposite of 0V position at control input.

Air dampers: Highest human safety by situational opening or closing at power interruption (EPS).



Air Handling Unit: Safety due to intelligent and secure closing of frost damper and interruption of the heating circuits.

Advantages of the new electronic generation

- Intelligent management of power interruptions
- Control of predefined power-off position
- Energy saving
- Higher torque, smaller design in size and weight
- Status feedback by LED on electronic
- State of the art greentech electronics 
- Highest reliability thanks to best quality
- Easy installation
- Maintenance free
- Best cost-performance ratio



YOUR SUCCESS IS OUR DRIVE

Your decision for NENUTEC as actuator supplier will bring you following benefits:

- Knowhow and worldwide support
- Proven actuator technology
- Tailormade OEM solutions as R&D partner
- Energy saving technology at highest reliability
- Greentech design for all new NENUTEC developments 



5 Nm



8 Nm | 16 Nm | 24 Nm

| | |
|---------------|---|
| Torque | 5 Nm 8 Nm 16 Nm 24 Nm |
| Power supply | 24 V AC/DC 90 - 230 V AC |
| Control input | 2 / 3 point modulating |
| Applications | air-damper smoke-damper valves |
| Field | HVAC systems buildings hospitals pharmaceutical facilities tunnels greenhouses etc. |

For technical details please see datasheet.

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