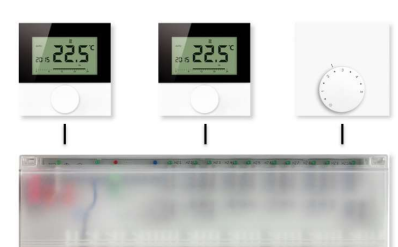





Market segment underfloor heating and cooling

OEM Alpha direct wired controls



OEM Alpha 2 wireless and BUS controls



Thermal actuators for underfloor heating and cooling

- A5 generation: 1 W technology designed and made in Germany
- A4 generation: 2 W technology designed in Germany and made in Poland
- A4 generation: 2 W technology designed in Germany and assembled in China
- E3 generation: 1.2 W technology designed in Germany and made in China

Market segment thermal & motoric actuators for zone control in Building Management Systems

Thermal: A5 generation with 1 W technology, designed and made in Germany

Product range: on/off 230 V / 120 V / 24 V
 on/off 230 V / 24 V with auxiliary switch
 24 V proportional 0-10V, 2-10V, 10-0V, linear characteristic
 options: valve stroke recognition
 feed back signal
 equal percentage or customized characteristic
 actuator stroke: 4.0 / 5.0 or 6.5 mm (valve stroke resp. 3.5, 4.5 or 6.0 mm)
 all versions are intrinsically failsafe due to spring actuator force

Motoric: A5 generation designed in Germany, made in Poland

Product range: on/off & floating (3-P) 230 V / 24 V
 24 V proportional 0-10V, 2-10V, 10-0V, linear characteristic
 options: valve stroke recognition
 feed back signal
 equal percentage or customized characteristic
 actuator stroke: 8.5 mm (max. valve stroke 8.0 mm)
 non-failsafe and failsafe versions available

Applications: Zone control for heating and cooling with zone-, balancing- or PICV-valves in combination with heating/cooling registers, fan-coils, radiators, underfloor manifolds.