

## Types 1281/1284 3-point controller



**For valve types:**  
413, 418, 613, 618,  
693, 698

*For panel mounting or  
direct attachment*

**Voltages:** 24, 220 v/50 Hz  
**Permissible voltage variation:** -10% +15%  
**Power consumption:** 4 VA  
**Switching voltage:** max. 250 V  
**Switching current:** max. 5 A  
**Switch rating:** max. 300 VA

**Actual valve input:** 0-10 k  $\Omega$  (special version 0-20 mA possible)  
**Transducer supply:** 15 V  
**Current input:** 0 to 20 mA, 4 to 20 mA (according to the terminal arrangement)  
**Current output:** 0 to 20 mA, 4 to 20 mA; Burden: 750 ohm as supply voltage  
**Relay output:** as supply voltage  
**Apparatus terminals:** see connection diagram  
**Cable gland:** PG 13.5  
**Mass:** Type 1281: 460g; Type 1284: 510 g  
**Protection class:** IP 40

## Types 1286/1289 3-point controller



**For valve types:**  
413, 418, 613, 618, 693, 698

Euro-card for 19" or 24" racks  
with 31 pole terminal strip  
complying with DIN 41617

**Voltages:** 24, 220 v/50 Hz  
**Permissible voltage variation:** -10% +15%  
**Power consumption:** 4 VA  
**Switching voltage:** max. 250 V  
**Switching current:** max. 5 A  
**Switch rating:** max. 300 VA

**Actual valve input:** 0-10 k  $\Omega$  (special version 0-20 mA possible)  
**Transducer supply:** (Actual valve input 10 V)  
**Current input:** 0 to 20 mA, 4 to 20 mA (according to the terminal arrangement)  
**Current output:** 0 to 20 mA, 4 to 20 mA; Burden: 750 ohm potential-free  
**Relay output:** potential-free  
**Apparatus terminals:** see connection diagram

## Types 1520/1521 Isolating Switch Amplifiers



**For accessory types:**  
1251, 1252, 1256, 1257

**Voltages:** 110, 220 V/50-60 Hz; others on request  
**Permissible voltage variation:**  $\pm 10\%$   
**Power consumption:** approx. 3 VA  
**Contact arrangement:** Change-over contacts  
**Connections:** either PNP or NPN (can be changed on site)  
**Switching voltage:** 380 V a.c./220 V d.c.  
**Switching current:** 3.5 A a.c./0.5 A d.c.  
**Switch rating:** 1000 VA/100 W  
**Control circuit:** SELV (safety extra low voltage) (VDE 0100) 25 V d.c., 20 mA

**Opt. indication by LED:** Min. contact - a LED indicates that the value is below the set value  
 Max. contact - a LED indicates that the value has exceeded the set value

**Housing:** Plastic [Type 1520]  
 19"/24" rack Eurocard, 4 TE, 3 HE [Type 1521]

**Connection terminals:** for wires up to 1.5<sup>2</sup> [Type 1520]; 31 pole terminal block to DIN 41617 [Type 1521]

**Permissible ambient temperature:** 14°F to 122°F  
**Mechanical Protection:** IP 40 [Type 1520]; IP 00 [Type 1521]  
**Mass:** approx. 480g [Type 1520]  
 approx. 280g [Type 1521]  
**Input leads:** any length; Min. 0.5mm<sup>2</sup>, Max. 1.5 mm<sup>2</sup>