Electronic accessory components

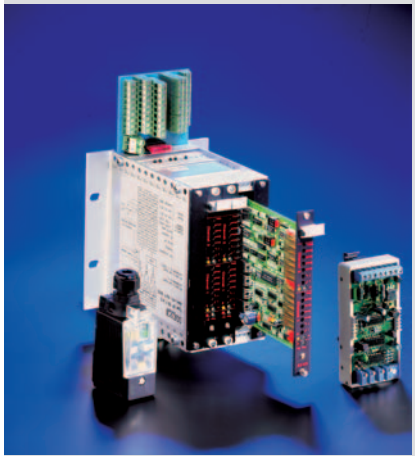
There is a wide range of electronic components for the control of common on/off and proportional solenoids available. The range consists of e.g. electronic amplifiers as modules, cards, versions integrated in the plug for single or twin solenoids or for pressure switches.
A power supply for 230V DC / 24V DC solenoid valves is also available.
All these components are designed for HAWE solenoid valves.

Nomenclature:

- Plugs
  No special feature (standard)
  With rectifier circuit
  With clamp diode
  With LED
  With economy circuit
- Amplifiers for proportional solenoids
- Power supplies

Design:

Plugs
Modules with terminals
Cards with terminals



Versions

Plugs for solenoid valves (single and twin solenoids)

Brief description	Application
No special feature (standard)	For all applications with no special requirements
Version with LED	Visual operation control and EMC protection (note prolonged cut-off times)
Version with clamp diode	For optimum EMC protection (note prolonged cut-off times)
Version with economy circuit	Increased functional security and prolonged service life of the solenoids by reducing the voltage (pulse width modulation) after a defined period. Recommended for use in areas with high ambient temperatures and/or for application where the solenoids are permanently energized (e.g. safety circuits)
Version with rectifier circuit	Enabling use of DC solenoids when a power supply of 110V AC / 230V AC 50/60 Hz is only available

Plugs with no special feature (for DC mains) or versions with built-in rectifier for mains 110V AC / 230V AC 50/60 Hz are standard parts of delivery with any solenoid valve.

Proportional amplifiers

Characteristic

- Maintains a constant current, largely independent of the supply voltage and temperature related alternations of the coil resistance.
- Improved EMC protection
- Enables use over a wide temperature range

Adjustable parameter

- I_{max} and I_{min} - setting
- Ramp time (up to 10 sec)
- Reference voltage for set point generator
- Dither amplitude and frequency

Type	Brief description	Application
EV 1 M **EV 1 G**	Module version (board only or built-in housing)	For installation in switch cabinets via terminals
EV 22 K	Card version	This card is able to control two proportional solenoids. May be individually installed in a card retainer or up to 3 in a module carrier

Mains supply for solenoid valves

Type	Brief description	Application
MNG	Mains supply for inlet 230V 50/60Hz and outlet 24V DC, max. power rating 5A	Power supply for solenoid actuated hydraulic valves or electr. amplifiers for prop. solenoids

Further information

- Plugs (connectors); Type overview D 7163
- Economy circuits for actuation solenoids WG 230 D 7813
- Economy circuit type MSE 28026 D 7832
- Plugs with economy circuit for 24V DC type MSD 4 P55 D 7833
- Electronic amplifiers type EV 1 M 2-12/24(24/48) D 7831/1
  type EV 1 G 1-12/24 D 7837
  type EV 22 K 1-12(24) D 7817
  type EV 22 K 2-12/24 D 7817/1
- Progammable logical valve control type PLVC 16 D 7845
  type PLVC 2 D 7845-2
  type PLVC 4 D 7845-4
  type PLVC-CAN D 7845 Z
- Mains supply 24V DC type MNG D 7835
- Listing for combination possibilities of valves and electronic accessories P 7163-1
- Joystick type EJ D 7844
- Lifting module type HMT etc. D 7650, Sk 7650 ++, Sk 7758 ++
- Prop. directional seated valves type EMP D 7490/1, D 7490/1E
- Prop. directional spool valve type PSL, PSV D 7700 ++
- Prop. pressure valve type PM, PMZ D 7625
  type PMV D 7485/1
  type PDV D 7486
  type PDM D 7486, D 7584/1
- Prop. flow control valve type SE, SEH D 7557/1
- Electronic pressure sensor type DT 1(V) D 5440 T
  type DT 2(V) D 5440 T/1

- See also section “Devices for special applications” (Proportional valves)