

# Electronic accessories



There are various electronic accessories available for the control of proportional and on/off solenoids. These components come as amplifier cards, and plugs. The programmable logical valve control offers almost unlimited possibilities

## Basic type

- Plugs with LEDs
- Clamp diodes
- Economy circuits and others
- Proportional amplifier
- Programmable logic valve control

## Nomenclature

- Plugs
- Modules
- Cards

for logical operations at various in- and outputs. For more detailed information refer to the corresponding pamphlets, which are listed on the back page.

## Features and benefits

- Good performance/price ratio
- Tailored components for the HAWE solenoid valve range
- Plugs for single and twin solenoids as well as for pressure switches
  - Differing LED indication together with efficient EMC protection
  - Rectifier plugs
  - Economy circuits for 230 V AC/115 V AC as well as 24 V DC (For significant increase of service life and reliability, use at high ambient temperatures and/or permanent operation e.g. with protective circuits)
- Amplifier circuits as modules, cards or plugs for proportional solenoids:
  - $I_{max}$  and  $I_{min}$  setting
  - Ramp time adjustable up to 10 sec
  - Improved EMC qualities
  - Conductive plastic track potentiometer with solid center tap
  - Adjustability of the dither amplitude and frequency
- Programmable logic valve control
  - Modular design
  - Freely programmable in- and outputs
  - CAN- and PROFIBUS-interfaces
  - Various accessory, e.g. displays, operating panels

Programmable logic valve control																			
PLVC	D 7845 ++	x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x
Amplifier circuits for prop. solenoids																			
EV 1 SA <sup>8)</sup>	D 7818		x															(x)	
EV 1 M 2, EV 1 D <sup>9)</sup>	D 7831/1, D 7831 D	x	x <sup>4)</sup>							x								(x)	x
EV 22 K2 <sup>10)</sup>	D 7817/1	x	x							x									x
EV 1 G 1-12/24 <sup>9)</sup>	D 7837	x	x															(x)	x
Plugs with rectifier circuit																			
MSD 4-309 P22	D 7163			x	x	x	x											x	
MSD 4-209 P10	D 7163			x	x	x	x	x	x		x	x <sup>5)</sup>	x	x	x	x			
Plugs with clamp diode																			
MSD 3-209 C1 <sup>1)</sup>	D 7163	x	x	x		x	x	x	x		x	x	x <sup>6)</sup>	x <sup>6)</sup>	x	x	x	x <sup>7)</sup>	
MSD 4-309 C2 <sup>1)</sup>	D 7163	x	x	x		x	x			x								x	
MSD 4-309 C1-R <sup>1)</sup>	D 7163		x									x	x	x					
MSD 2 C1 <sup>1)</sup>	D 7163	x	x	x		x	x					x <sup>5)</sup>	x <sup>5)</sup>						
Plugs with LED																			
SVS 3129020 <sup>1)</sup>	D 7163	x		x	x	x	x			x	x	x <sup>6)</sup>	x <sup>6)</sup>	x	x	x	x	x <sup>7)</sup>	
SVS 296373 <sup>1)</sup>	D 7163	x		x	x	x	x			x	x	x <sup>6)</sup>	x <sup>6)</sup>	x	x	x	x	x <sup>7)</sup>	
SVS 296365	D 7163	x		x	x			x	(x)									x	
MSE 28028 <sup>3)</sup>	D 7163	x		x	x			x	(x)									x	
SVS 3129 720 <sup>1)</sup>	D 7163	x																x	
SVS 296374	D 7163	x																	
Plugs with economy circuit																			
MSD 4-P53 <sup>2)</sup>	D 7813			x	x	x	x	x	x		x	x <sup>6)</sup>	x <sup>6)</sup>	x	x	x	x		
MSD 4-P63 <sup>2)</sup>	D 7813		x		x	x	x	x	x		x	x <sup>6)</sup>	x <sup>6)</sup>	x	x	x	x		
MSD 4-P55	D 7833	x		x	x	x	x			x	x	x <sup>6)</sup>	x <sup>6)</sup>	x	x	x	x <sup>7)</sup>		
MSE 28026 <sup>3)</sup>	D 7832	x		x	x	x	x			x	x	x <sup>1)</sup>	x <sup>1)</sup>	x	x	x	x <sup>7)</sup>		
Power supply units																			
MNG 2,5-230/24	D 7835		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
MNG 5-230/24	D 7835		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
Valve control																			
On/off					x	x	x	x	x	(x)	x	x	x	x	x	x	x	x	
Proportional										x								x	
		Supply voltage		Directional spool valve		Directional seated valves													
		12 V DC		SG, SG	D 5650/1														
		24 V DC		SKP, SKH	D 7230														
		250 V DC		SW, SWP, SWR, SWS	D 7450, D 7451, D 7951														
		115 V AC		HSR, HSF, HSL	D 7493, D 7493 E, D 7493 L														
		230 V AC		HSL	Sk 7493 RL														
				PSL, PSLV, PSLF	D 7700-2, D 7700-3, D 7700-5, D 7700-F														
				HSV	D 7032														
				CR	D 7150														
				G..	D 7300, D 7302														
				Lift, monitoring G..	Sk 7380..														
				NG, VP	D 7330, D 7915														
				BVG, BVP, NBVP	D 7400, D 7765, D 7765 N														
				WN(H), BWN(H)	D 7470A/1, D 7470B/1														
				EM, (EMP)	D 7490/1														
				HMC, (HMB)	D 7650														
				VZP, BVZP	D 7785A, D 7785B														

- <sup>1)</sup> Plugs with clamp or Z-diodes for the suppression of operation spikes and/or to prolong the drop time  
<sup>2)</sup> Rectifier plug with economy circuit  
<sup>3)</sup> Featuring a SPS-capable amplifier  
<sup>4)</sup> May be used up to 64 V DC  
<sup>5)</sup> Only available for size 0  
<sup>6)</sup> Only together with adapter plug for solenoids size 0 and 1  
<sup>7)</sup> Only for on/off solenoids  
<sup>8)</sup> Plug version  
<sup>9)</sup> Module version  
<sup>10)</sup> Amplifier card

Additional component: Radio controls

- Co. HBC-Elektronik; D-74564 Crailsheim;

Additional component: Joy stick type EJ D 7844

Electronic pressure switch type DG 5 E D 5440 E/1  
type DG 6 D 5440 F

Pressure sensor type DT 2 D 5440 T/1  
type DT 11 D 5440 T/2

## **Additional information related to this topic**

• Product overview	K 177
• Plugs, overview	D 7163
• Economy circuits for actuation solenoids WG 230	D 7813
• Electronic amplifiers type EV 22 K	D 7817/1
• Electronic amplifiers type EV 1 SA	D 7818
• Electronic amplifiers type EV 1 M	D 7831/1
• Electronic amplifiers type EV 1 D	D 7831 D
• Economy circuit type MSE 28026	D 7832
• Plug with economy circuit 24 V DC type MSD4P55	D 7833
• Power supply unit type MNG, output 24 V DC	D 7835
• Electronic amplifier type EV 1 G	D 7837
• Programmable logic valve control type PLVC	D 7845 ++
• CAN-knot type PLVC-POW	D 7845 Z
• CAN-knot type CAN-HMI (display- and operating knot)	D 7845 HMI
• Electronic pressure transducer type DT 2	D 5440 T/1
• Electronic pressure transducer type DT 11	D 5440 T/2
• Electro-hydraulic pressure switches type DG	D 5440
• Electronic pressure transducer type DG 5 E	D 5440 E/1
• Electronic pressure transducer type DG 6	D 5440 F



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