

Switches and System Monitoring

Schmalz – The Company

Vacuum Knowledge

Vacuum Suction Pads

Special Grippers

Mounting Elements

Vacuum Generators

Valve Technology

Switches and Monitoring

Filters and Connections

Vacuum Gripping Systems

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Switches and System Monitoring

Everything at a Glance

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	Checklist for Selection of measuring and control devices	561
Vacuum Switches		
	Vacuum Switches VS-V-PM / EM-ST <ul style="list-style-type: none"> • Vacuum switch in electro-mechanical and pneumatical version • Measuring range: from -1 to 0 bar 	 Mechanical vacuum switch in electrical and pneumatic version with adjustable switching point.
	Vacuum Switches VS-V-SA / SD <ul style="list-style-type: none"> • Miniature electronic vacuum switch • Measuring range: from -1 to 0 bar 	 Vacuum switch in minimalist design, optionally with digital or analog switching output.
	Vacuum Switches VS-V-AH / AV-T <ul style="list-style-type: none"> • Electronic vacuum switch • Measuring range: from -1 to 0 bar • Switching function: PNP 	 Vacuum switch with two digital switch outputs, teach button for fast adjustment of the switching point and two-color LED indicator.
	Vacuum Switches VS-V-A-PNP-S <ul style="list-style-type: none"> • Electronic vacuum switch • Measuring range: from -1 to 0 bar • Switching function: PNP 	 Vacuum switch with digital and analog switching output and adjustable switching point.
	Vacuum Switches VS-V <ul style="list-style-type: none"> • Electronic vacuum switch • Measuring range: -1 to 0 bar • Switching function: PNP, NPN 	 Vacuum switch with digital and analog switching output, adjustable switching point and adjustable hysteresis.

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	Pressure Switches VS-P10-W-D-K(-2C)		602
<ul style="list-style-type: none"> • Electronic pressure switch • Measuring range: from 0 to 10 bar • Switching function: PNP, NPN 		Pressure switch with two separately programmable digital outputs, digital display, adjustable switching point and adjustable hysteresis.	
Combined Vacuum/Pressure Switches			
	Vacuum and Pressure Switches VS-P		606
<ul style="list-style-type: none"> • Electronic vacuum and pressure switch • Measuring range: from -1 to 10 bar • Switching function: PNP, NPN 		Combined vacuum/pressure switch with digital and analog switching output, function LED, adjustable switching point and adjustable hysteresis.	
Connectors and Adapters for Vacuum Switches			
	Cables and Plugs for Vacuum Switches		609
<ul style="list-style-type: none"> • Connecting cables • Adapter plugs 		Connection of the various types of switches, adaptation to customer requirements.	
Measuring and Control Devices			
	Vacuum Regulators VR		610
<ul style="list-style-type: none"> • Adjustment range: -990 to -14 mbar 		Mechanically adjustable vacuum controller with very high accuracy to compensate for design-related pressure fluctuations.	
	Manometers VAM		612
<ul style="list-style-type: none"> • Measuring range: from -1 to 0 bar 		Manometer with different scales for analog measurement and monitoring of the vacuum value.	
	Pressure-Reduction Valves DM		615
<ul style="list-style-type: none"> • Max. pressure: 12 bar • Work area: 0.5 to 10 bar 		Mechanically adjustable pressure reducer for regulation of compressed air in compressed air systems.	

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Everything at a Glance

Warning Devices



Warning Devices, Acoustic-Electronic WN-AE V



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- Monitoring range: -1 to 0 bar
- Audible warning signal with 100 dBA

Electronic warning device with acoustic signal for monitoring vacuum systems.

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Checklist for Selection of Measuring and Control Devices	
Which measuring range is required?	Vacuum only, pressure only or both? Is overpressure resistance necessary?
Which functions are needed?	Switch with a digital switching output? Switch with two digital outputs? Switch with one digital and one analogue output? With adjustable hysteresis?
Which output signals are required? How should the switch be set?	Adjustment with potentiometer? Programming with keypad? Quick setting with teach button?
What is the supply voltage and which signal voltages are needed?	Voltage range? Switching voltages for the controller? Which switching capacity is needed (switched current in mA)?
Which measuring accuracy is necessary?	Hysteresis? Repeatability? Temperature stability?
Which connection facilities exist?	Connection cable (pin assignments, material)? Interchangeability?
Which size and weight restrictions apply?	Mounting facilities? Is on-site adjustment possible?