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Valve & filter controllers

for the control and monitoring of industrial filter systems

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HE 5710 on standard rail

HE 5712 Modular design

HE 5733

HE 5710 in Makrolon housing

HE 5712* Compact design

Name	HE 5733	HE 5710 / HE 5711	HE 5712
Cleaning type	mechanical by means of vibration (vibrating filter)	Compressed air blast (jet pulse method)	Compressed air blast (jet pulse method)
Number of valve outputs		4 / 8	8
Valve extension	-	-	-
Display + operation	LED 7-segment display LED differential pressure column Keys (external)	LED Push-button (internal) Potentiometer	LED 7-segment display LED differential pressure column Keys (external)
Differential pressure measurement	internal (option); 50/100mbar	-	internal, 35/90/450 mbar
Valve diagnosis electrical (cable break / overcurrent)	-	Valve detection	Function monitoring
Inputs	Enable, ext. start, ext. stop; Thermistor input (option)	Start, post-cleaning	Start, post-cleaning, release
Outputs	Operation/fault; dp alarm; dp 4 … 20mA (option)	-	Collective fault signal, Δp 4 … 20 mA
Communication process control	via inputs / outputs	via inputs	via inputs / outputs
Service interfaces	RJ10 interface with USB adapter HE 5851	-	RJ10 interface with USB adapter HE 5851
Pause time control	-	✓	✓
Differential pressure switching thresholds	Δp cleaning, Δp low alarm, Δp high alarm, post-cleaning	-	Δp cleaning, Δp low alarm, Δp high alarm, post-cleaning
Housing designs	Compact housing (IP65)	Compact housing (IP65) Standard rail housing	Compact housing (IP65) Modular: Control unit for control panel + Control unit standard rail housing
Pilot valves	-	via external pilot valve box HE 5700	via external pilot valve box HE 5700
Supply voltage	3PH, 400 V AC	24 V DC / 100 … 240 V AC	24 V DC / 100 … 240 V AC
Special features	Integrated connections for fan (up to 5.5 KWh) and vibrator motor; Rotating field detection + phase presence monitoring	-	Parameterisation with PC and EasyTool Controls" software, pre-coatingmode. Separate installation of control and valve connection (up to 100 m)
Application examples	Cleaning of mobile filters, industrial vacuum cleaners, special filter systems	Cleaning of industrial filter systems Bunker top filters, industrial extractors	Cleaning of industrial filter filter systems

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HE 5721 / HE 5721 FP	HE 5731	HE 5760	HE 5750
Compressed air blast (jet pulse method)	Compressed air blast (jet pulse method)	Compressed air blast (jet pulse method)	Compressed air blast (jet pulse method)
12 (max. 24)	16 (max. 64)	12 … 576	768 (24 chambers with 32 valves each) 1024 (16 chambers with 64 valves each)
Internal expansion board with 12 valve outputs	Extension unit HE 5731 E with 16 valve inlet	Valve control unit HE 5725 with 12 valve outlets	HE 5724 valve control unit with 32 valve outputs
LED 7-segment display Push-button (internal) Potentiometer	LED 7-segment display LED differential pressure column Keys (external), Rotary coding switch	Graphic display - illuminated Keys (external)	Graphic display - illuminated Keys (external)
internal, 25/50/100 mbar	external, 4 … 20 mA (Option)	external, 4 … 20 mA (Option)	external, 4 … 20 mA (Option)
Function monitoring	Function monitoring	Function monitoring; Pneumatic with pressure sensor (option)	Function monitoring; Pneumatic with pressure sensor (option)
Start, enable, stop, post-cleaning, fault acknowledgement, pressure switch	Start, post-cleaning, release	Start, stop, post-cleaning, fault acknowledgement, remote control, 2 x 4 … 20 mA	Digital and analogue signals on request
Operation, cleaning, Δp alarm, Δp 4 … 20 mA	Collective fault signal, Δp 4 … 20 mA	Operation, cleaning active, fault	Digital and analogue signals on request
via inputs / outputs	via inputs / outputs	Profibus DP, Modbus RTU	Profibus DP, Modbus RTU, Modbus/TCP, Parallel Interface
-	RJ10 interface with USB adapter HE 5851	USB	RS232
-	✓	✓	✓
Δp cleaning, Δp alarm, post-cleaning	Δp cleaning, Δp low alarm, Δp high alarm, post-cleaning	Δp cleaning, Δp alarm 1, Δp alarm 2	Δp cleaning, Δp alarm 1, Δp alarm 2 volumenstromabhängige Δp-Regelung
Compact housing (IP65)	Compact housing (IP65) Modular: Control unit for control panel + Control unit standard rail housing	Control unit Panel mounting Control unit compact housing	Control unit Panel mounting Control unit compact housing
via external pilot valve box HE 5700	via external pilot valve box HE 5700	via external pilot valve box HE 5700	via external pilot valve box HE 5700
24 V DC / 100 … 240 V AC	24 V DC / 100 … 240 V AC	24 V DC / 100 … 240 V AC	24 V DC / 100 … 240 V AC
-	Parameterisation with PC and EasyTool Controls" software, pre-coating mode. Separate installation of operation and valve connection (up to 100 m)	Versatile and customisable thanks to numerous functions	System for the highest demands with centralised dust monitoring. Pre-pressure control, can be maintained remotely, redundant operation possible
Chip filter systems, stone dust filters, filters with higher monitoring requirements	Chip filter systems, stone dust filters, filters with increased monitoring requirements	Gas turbine power plants, dairies (lactose, etc.)	Cement works, steelworks, waste incineration plants, power stations
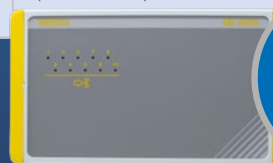
HE 5700
Pilot valve box

4 to 10 pneumatic valves

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