

# **TECHNICAL SPECIFICATION**

## ***Pulse Controller 20 Series***

**Product Description**

**Principle of Operation**

**Performance**

**Product Variation**

**Construction**

**Dimensional Details**

## PRODUCT DESCRIPTION



### Electronic Controller for Clean Air Systems

The 20 Series Pulse Controller is one of the Goyen range of electronic sequencers. This has been developed exclusively to control the cleaning of dust collector filters and incorporates advanced microprocessor technology.

### Typical Applications

Used to control the pulsing of diaphragm valves in reverse jet pulse cleaning systems.

## PRINCIPLE OF OPERATION

### Functionality

Adjustable Quantities:

- Automatic / Manual modes
- Number of Valves
- Pulse Time (0.01 - 9.99 sec)
- Manual Pause Time (1 - 999 sec)
- Automatic Pause Time (1 - 999 sec)
- Operating Delta-P (0.01 - 250 kPa)
- Set Alarm Delta-P (0.01 - 250kPa)
- Shut Down Cleaning (0 - 99 cycles)
- LED to indicate that the system is in RUN mode -> LED turns off when in the PROGRAM menu or if the preset Delta-P Alarm is exceeded. In case of Alarm, the LCD displays PP1. By pressing "-" button, the controller will return to RUN mode.
- Delta-P button that allows the display of the instantaneous Delta-P. When selected again the LCD displays the number of the active valve.
- Remote activation of the controller
- Optional 4-20mA output facility

### Inputs and Outputs

Inputs:

Voltages Available	Inlet	Outlet
	230 V (±20%) - 50/60 Hz	230 V - 50/60 Hz
	230 V (±20%) - 50/60 Hz	24 V - 50/60 Hz
	230 V (±20%) - 50/60 Hz	24 V Dc
	115 V (±20%) - 50/60 Hz	115 V - 50/60 Hz
	115 V (±20%) - 50/60 Hz	115 V Dc
	115 V (±20%) - 50/60 Hz	24 V - 50/60 Hz
	115 V (±20%) - 50/60 Hz	24 V Dc
	24 V (±10%) - 50/60 Hz	24 V - 50/60 Hz
	24 V (±10%) - 50/60 Hz	24 V Dc

Outputs:

- Outlet Power max                      45VA - 30 Watt with maximum pulse time 1 sec.  
    20 VA - 15 Watt with maximum pulse time above 1 sec.
  
- Number of outputs
  - 4
  - 8
  - 12
  - 16
  
- Remote contacts
  
- Alarm Relays
  - High Delta-P Alarm
  
- Optional 4 - 20 mA output

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## **PERFORMANCE**

### **Temperature Rating**

Storage: -20°C / +80°C

Working: -10°C / +50°C

### **Unit Weight**

Approx. 2kg

## PRODUCT VARIATIONS

### Voltages and Solenoids

Voltages Available	Inlet	Outlet
	230 V ( $\pm 20\%$ ) - 50/60 Hz	230 V - 50/60 Hz
	230 V ( $\pm 20\%$ ) - 50/60 Hz	24 V - 50/60 Hz
	230 V ( $\pm 20\%$ ) - 50/60 Hz	24 V DC
	115 V ( $\pm 20\%$ ) - 50/60 Hz	115 V - 50/60 Hz
	115 V ( $\pm 20\%$ ) - 50/60 Hz	115 V DC
	115 V ( $\pm 20\%$ ) - 50/60 Hz	24 V - 50/60 Hz
	115 V ( $\pm 20\%$ ) - 50/60 Hz	24 V DC
	24 V ( $\pm 10\%$ ) - 50/60 Hz	24 V - 50/60 Hz
	24 V ( $\pm 10\%$ ) - 50/60 Hz	24 V DC

## **CONSTRUCTION**

### **Enclosure**

Grey ABS with transparent cover (IP65 rated)

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## **DIMENSIONAL DETAILS**

### **Envelope Size**

213mm x 185mm x 113mm

### **Electrical Connections**

Max wire section 2.5mm<sup>2</sup>

### **Mounting Details**

- Mount in environments of -10oC to + 50oC
- Do not directly expose to sunlight
- Do not mount directly to hot surfaces
- Protect from infiltrations of water and humidity
- Do not install on vibrating surfaces
- All the electrical connections including the wiring associated with the valves should not be in close proximity to wiring for other applications (for example from motor cables)