

# TECHNICAL SPECIFICATION

## *Pulse Controller 200 Series*



**Product Description**



**Principle of Operation**



**Performance**



**Construction**



**Dimensional Details**



## PRODUCT DESCRIPTION



### Electronic Controller for Clean Air Systems

The 200 Series Pulse Controller is one of the Goyen range of electronic sequencers with an integrated differential pressure (Delta-P) sensor. 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:

- Pulse Time (0.00 – 9.99 sec; recommended 0.1 to 0.5 sec)
- Manual Pause Time (1 – 999 sec)
- Set Delta-P (0.00 – 9.99 kPa)
- Set Delta-P Alarm (0.00 – 9.99 kPa)
- Pause in After Cleaning Cycle (1 – 99 sec)
- After Cleaning Cycle (1 – 99 Times)
- Automatic Pause Time (1 – 999 sec)
- Automatic/Manual modes
- Alarm RESET button
- Coil Failure Alarm
- LED to indicate that the system is “Pausing”
- LED to indicate that the system is “Pulsing”
- Delta-P button that allows the display of the instantaneous Delta-P. When selected again the LCD displays the number of the active valve
- Microprocessor malfunction Watchdog Alarm
- Low (Header) Pressure LED [requires separate pressure sensing and signal processing]
- 4-20mA output terminals

### Inputs and Outputs

Inputs:

- Input Power: 50VA
- Alarm Reset facility

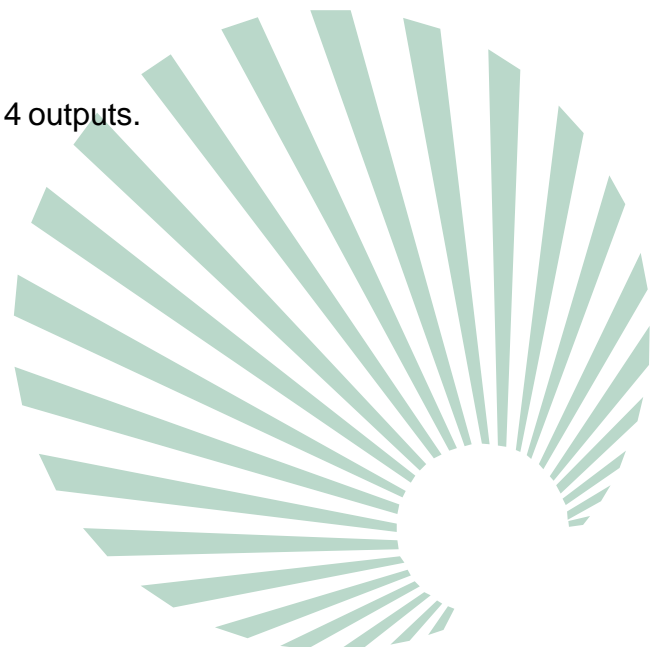


<b>VOLTAGES AVAILABLE</b>	<b>INLET</b>	<b>OUTLET</b>
	230 V (±10%) - 50/60 Hz 230 V (±10%) - 50/60 Hz 230 V (±10%) - 50/60 Hz <b>230 V (±10%) - 50/60 Hz</b> <b>230 V (±10%) - 50/60 Hz</b> 230 V (±10%) - 50/60 Hz 230 V (±10%) - 50/60 Hz 115 V (±10%) - 50/60 Hz 115 V (±10%) - 50/60 Hz <b>115 V (±10%) - 50/60 Hz</b> <b>115 V (±10%) - 50/60 Hz</b> 115 V (±10%) - 50/60 Hz 115 V (±10%) - 50/60 Hz <b>48V (±10%) - 50/60 Hz</b> <b>48V (±10%) - 50/60 Hz</b> <b>48V (±10%) - 50/60 Hz</b> <b>48V (±10%) - 50/60 Hz</b> <b>48V (±10%) - 50/60 Hz</b> <b>48V (±10%) - 50/60 Hz</b> <b>24V (±10%) - 50/60 Hz</b> <b>24V (±10%) - 50/60 Hz</b> <b>24V (±10%) - 50/60 Hz</b> <b>24V (±10%) - 50/60 Hz</b> <b>24V (±10%) - 50/60 Hz</b> <b>24V (±10%) - 50/60 Hz</b> <b>24V (±10%) - DC</b>	230 V - 50/60 Hz 115 V - 50/60 Hz 115 V - DC <b>48 V – 50/60 Hz</b> <b>48 V - DC</b> 24 V – 50/60 Hz 24 V - DC 115 V - 50/60 Hz 115 V - DC <b>48 V – 50/60 Hz</b> <b>48 V - DC</b> 24 V – 50/60 Hz 24 V - DC <b>115 V – 50/60 Hz</b> <b>115 V - DC</b> <b>48 V – 50 / 60 Hz</b> <b>48 V - DC</b> 24 V – 50/60 Hz 24 V - DC <b>115 V – 50/60 Hz</b> <b>115 V - DC</b> <b>48 V – 50 / 60 Hz</b> <b>48 V - DC</b> 24 V – 50/60 Hz 24 V - DC <b>24 V - DC</b>

Red text denotes that the model is a Special order available upon request

**Outputs:**

- Outlet Power max
  - 45VA – 30 Watt with maximum pulse time 1 sec.
  - 20VA – 15 Watt with maximum pulse time above 1 sec.
- Number of outputs
  - 4 minimum
  - 128 maximum
 intermediate models are available in multiples of 4 outputs.
- Low (Header) Pressure LED
- Alarm Relays
  - Coil Failure
  - High Delta-P Alarm
  - Watchdog Alarm
- 4 – 20 mA output



## PERFORMANCE

### Temperature Rating

Storage: -20°C / +80°C

Working: -10°C / +50°C

### Unit Weight

200-32 (Timer with internal dP and 32 stations): approx 3.3kg

200-48 (Timer with internal dP and 48 stations): approx 7kg



## CONSTRUCTION

### Enclosure

Grey ABS – transparent cover (IP65 rated)



## DIMENSIONAL DETAILS

### Envelope Size

200-4	to	200-32:	296mm x 256mm x 118mm
200-36	to	200-48:	560mm x 280mm x 130mm
200-52	to	200-128:	600mm x 400mm 170mm

### Port Sizes

6mm tube fittings for pressure sensing

### Electrical Connections

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

### Mounting Details

- Mount in environments of -10°C to + 50 °C
- Do not mount directly to hot surfaces
- Do not expose directly to sunlight
- Protect from infiltrations of water and humidity
- Do not install on vibrating surfaces
- All 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)
- 3 point mounting (see Operating Guide for further details)

