

# TECHNICAL SPECIFICATION

## *Pulse Controller 100 Series*



**Product Description**



**Principle of Operation**



**Performance**



**Approvals**



**Construction**



**Dimensional Details**



## PRODUCT DESCRIPTION

Electronic Controller for Clean Air Systems

The 100 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:

- Pulse Time (0.01 - 9.99 sec in increments of 1 ms)
- Pause Time (1 - 999 sec in increments of 1 sec)
- Pause in After Cleaning Cycle (1 - 99 sec in increments of 1 sec)
- After Cleaning Cycle (0 - 99 times)
- Alarm Reset Button
- Microprocessor malfunction Watchdog Alarm
- Low (Header) Pressure LED [requires separate pressure sensing and signal processing]
- Coil Failure Alarm
- LED to indicate that the system is "Pausing"
- LED to indicate that the system is "Pulsing"
- LED to indicate that the system is conducting the After Cleaning Cycle
- LED to indicate that the controller is set to operate
- Remote Contacts
- FAN Contacts

### Inputs and Outputs

Inputs:

- Input Power: 50VA
- Alarm Reset facility
- FAN Contacts
- Remote Contacts
  - Low (Header) Pressure Contacts

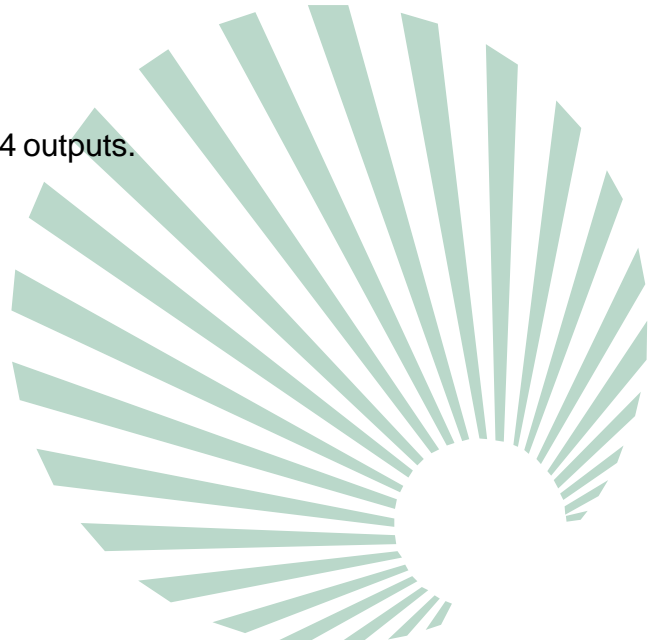


VOLTAGES AVAILABLE	INLET	OUTLET
	230 V (±10%) - 50/60 Hz	230 V - 50/60 Hz
	230 V (±10%) - 50/60 Hz	115 V - 50/60 Hz
	230 V (±10%) - 50/60 Hz	115 V - DC
	230 V (±10%) - 50/60 Hz	48 V – 50/60 Hz
	230 V (±10%) - 50/60 Hz	48 V - DC
	230 V (±10%) - 50/60 Hz	24 V – 50/60 Hz
	230 V (±10%) - 50/60 Hz	24 V -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

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
  - 32 maximum
 intermediate models are available in multiples of 4 outputs.
- Low (Header) Pressure LED
- Alarm Relays
  - Coil Failure



## **PERFORMANCE**

### **Temperature Rating**

Storage: - 20°C / + 80°C

Working: - 10°C / + 50°C

### **Fluid Media**

Compressed Air

### **Unit Weight**

100-12 (Timer with internal dP and 12 Stations) approx 2kg



## APPROVALS

### Approvals Carried

Independently tested to 89/336 EEC & 93/68 EEC directives



## CONSTRUCTION

### Enclosure

Grey ABS - transparent cover (IP65 rated)



## DIMENSIONAL DETAILS

### Envelope Size

296mm x 256mm x 118mm

### 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 vibration 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)

