



## Cordis High Pressure Controller

### CHP-HGE-5GI



The Cordis uses a microcontroller, integrated pressure sensor, and two Clippard electronic valves. The inlet valve is connected to the moderately regulated supply pressure and the exhaust valve is connected to a port that vents excess pressure to atmosphere. Once a command is increased, the inlet valve opens up to allow supply pressure to pass over the sensor element which provides an active feedback for the microcontroller to satisfy the set point in the process. If at any point the sensor detects a value higher than the set point, the exhaust valve will modulate open to vent off the excess pressure to maintain a stable and accurate control pressure in the process.

|                                         |                                                                                                                                                    |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>**NOTE**</b>                         | Consult Clippard for Custom Calibrated Ranges                                                                                                      |
| <b>2D Files</b>                         | <a href="#">2D Files</a>                                                                                                                           |
| <b>Accessories</b>                      | 8-Pin Actuation Cable, 6': <a href="#">CPCH-C1</a> , 3.3 VDC Serial Cable, 3': <a href="#">CPCH-C2</a> , Mounting Bracket: <a href="#">CPCH-B2</a> |
| <b>Accuracy</b>                         | ±0.5% of full scale                                                                                                                                |
| <b>Calibrated Range</b>                 | 0 to 500 psig                                                                                                                                      |
| <b>Current Draw</b>                     | <250 mA max.                                                                                                                                       |
| <b>Data Sheet</b>                       | <a href="#">Data Sheet</a>                                                                                                                         |
| <b>Filtration</b>                       | 40 micron (recommended)                                                                                                                            |
| <b>Function</b>                         | Normally-Closed                                                                                                                                    |
| <b>Linearity</b>                        | ≤0.2%                                                                                                                                              |
| <b>Max. Hysteresis</b>                  | ≤0.25%                                                                                                                                             |
| <b>Max. Inlet</b>                       | 550 psig (38 bar) ≤500 psig (34.5 bar), 1100 psig (76 bar) ≥501 psig                                                                               |
| <b>Medium</b>                           | Clean, Dry, Non-Corrosive Gases                                                                                                                    |
| <b>Min. Volume/Flow @ Max. Pressure</b> | ≥2.00 in <sup>3</sup> / 12.5 l/min                                                                                                                 |
| <b>Mounting Attitude</b>                | Any                                                                                                                                                |
| <b>Operating Instructions</b>           | <a href="#">Operating Instructions</a>                                                                                                             |
| <b>Operating Pressure</b>               | Vac. to 1,000 psig (69 bar)                                                                                                                        |
| <b>Operating Temperature Range</b>      | 32 to 180°F (0 to 82°C)                                                                                                                            |
| <b>Port Size</b>                        | G1/8                                                                                                                                               |
| <b>Product Line Brochure</b>            | <a href="#">Cordis Electronic Controls</a>                                                                                                         |
| <b>Protection Rating</b>                | IP65                                                                                                                                               |
| <b>Resolution</b>                       | ≤50 mV                                                                                                                                             |
| <b>Response Time</b>                    | <20 ms Typical (application dependent)                                                                                                             |
| <b>Signal/Command</b>                   | 0 to 10 VDC                                                                                                                                        |
| <b>Type</b>                             | Housed Unit                                                                                                                                        |
| <b>Weight (lbs.)</b>                    | 1.0800                                                                                                                                             |

