



### **General Description**

When monitoring the operation of a Dust Collector, there are times when the operator will need to increase or decrease the pulse cleaning rate in order to maintain the system differential pressure at an optimized level.

To continually monitor the dust collector and manually adjust for the various differential pressures is not economical and will typically result in the bags being cleaned much more than necessary. This can result in a much shorter bag life and a considerable increase in air consumption.

To overcome this, Electronic Designs offers the DP Transmitter, which will read the pressure difference in your dust collector and adjust the pulse rate automatically. This means the bags are pulsed only when cleaning is needed, thus saving air and prolonging bag life.

Our Model DP10LS1 and Model DP20LS1 DP Transmitters can be used in conjunction with any of our solid state timers or with a customer's existing PCL via 4-20 mA signal.

### **Principles of Operation**

The operator presets a fixed differential pressure via a control setting on the timer. The DP Transmitter then generates a 4-20 mA signal that corresponds to a 0-10" WC (DP-10LS1) or 0-20" WC (DP-20LS1). This signal is sent to the timer and compared to the operator's preset differential pressure setting. If the work load increases, the differential pressure will go higher, the 4-20 mA signal increases and the bags will pulse more frequently. As well as when the work load decreases, a signal will be sent to the timer telling it to pulse less.

All DP Transmitters are available with optional back plates and isolators for easy installation.

Proudly Made in the USA



Model DP10LS1 Shown

### **Mounting Dimensions**

DP10LS1: 4"W x 3.5"H

---

## **ELECTRONIC DESIGNS, INC.**

1683 Rock Hill Highway • Lancaster, SC 29720

Phone: (704) 545-1439 • Fax: (704) 545-8345

Website: [www.edi-usa.com](http://www.edi-usa.com)

Email: [info@edi-usa.com](mailto:info@edi-usa.com)