ISO-485-P
Industrial RS-485 Surge Protector 2-Wire
SERIALCOMM.COM

Datasheet Revision 2.7

GENERAL FEATURES:
• Three stage protection of both lines of the RS-485 port
• Passive: no need for external power
• Plug-and-Play (Device is hot-pluggable)
• Terminal connections for easy installation
• Clamping voltage at 6.8 volts
• 600W of surge protection
• 5-year replacement manufacturer’s warranty
• CE, FCC, RoHS and REACH certified

DESCRIPTION:
The SerialComm ISO-485-P is an industrial-grade (wide temperature range) bi-directional passive RS-485 surge protector. It can protect any standard half duplex RS-485 port from voltage peaks, spikes caused by lightning and other power surges. The ISO-485-P protects the 2 lines: 485+ and 485-. The unit is passive; therefore, no external power or flow control is required. The ISO-485-P has a 3-wire terminal block on one RS-485 side and a 3-wire terminal block on the other RS-485 side.

The ISO-485-P provides three stages of protection for maximum safety. The first stage is a gas discharge tube. The second stage is a series of protection resistors. The third stage is 600W Transient Voltage Suppressor (TVS). All three stages of protection are provided for each of the RS-485 lines. When the ISO-485-P is placed close to the RS-485 device it is protecting, it will suppress any voltage levels above 6.8 volts without affecting the normal operation of the data transmission. When installing the ISO-485-P it is very important that the ground screws are connected to earth ground with a minimum of 12 AWG copper wire.

CERTIFICATIONS:

FUNCTIONAL DIAGRAM:

SPECIFICATIONS:

APPLICATIONS: