

When in GSM mode, a CVT485 module can be connected onto the control panel's serial port as an interface to lengthen the distance between the panel and the PCS250 Communicator Module. The serial cable provided enables a connection of up to 1m (3ft) from the control panel. If the PCS250 has to be installed further from the control panel (e.g., better reception), the CVT485 converts serial to RS485 protocol, allowing a connection of up to 300m (1000ft) from the control panel.

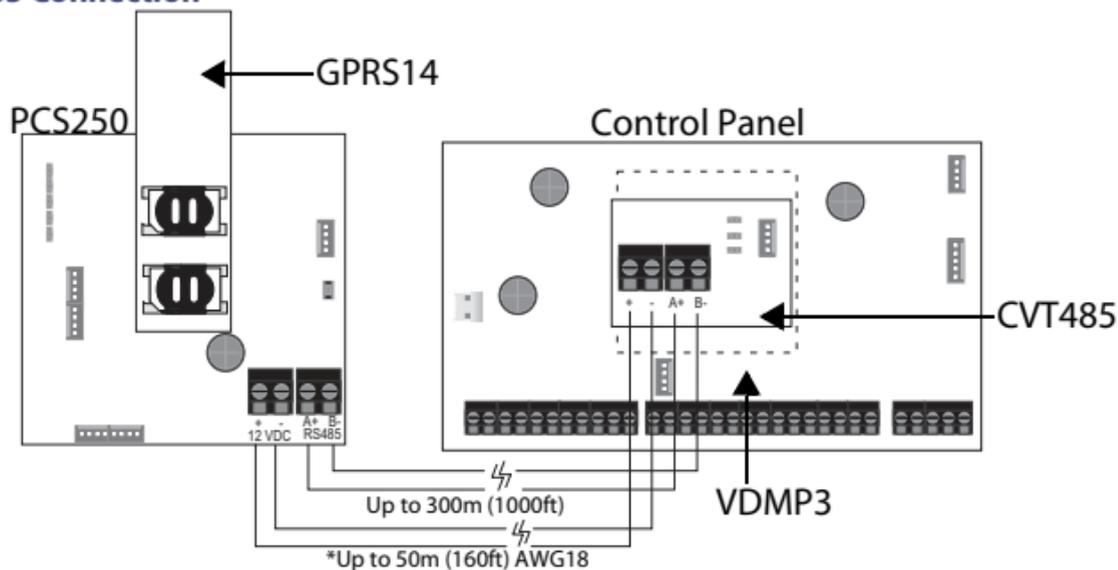
While the connection line A+ and B- of the RS485 connector can be extended up to 300m (1000ft), the power lines (+12V and ground connections of the RS485 connector) are subject to a shorter length restriction which is based on the wire gauge (this is due to a voltage drop in the lines during transmission). The maximum wire length for each of those power lines is as follows: 12m (40ft) for AWG24, 20m (65ft) for AWG22, 30m (100ft) for AWG 20, and 50m (160ft) for AWG18.

***Note:** It is possible to connect the RS485 A+ and B- lines to a CVT485 installed on a remote panel and power the PCS250 using a separate 12V power source with shorter wire lengths.*

CVT485: Plug-In RS485 Converter

P ▲ R ▲ D O X™

Figure 1: CVT485 Connection



*or use an independent power source for the PCS250