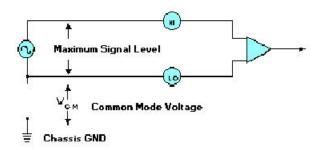
How are maximum input voltage and maximum common mode voltage related on the Integra series (e.g.77xx) modules?

Each analog channel on a 77xx switch module has a HI and a LO terminal for connection of the signal of interest. This connection has a maximum signal level specification. Additionally, the 77xx module has a Common Mode Voltage specification. Common mode voltage is the potential difference between the 27xx mainframe's chassis ground and the HI or LO terminals. In effect, it is the amount by which the signal can be floated relative to chassis ground.



The input voltage and common mode voltage are listed as follows.

| Switch | Maximum | Maximum Voltage | Maximum Voltage |
|--------|---------------------------|-------------------|-----------------|
| Module | Common Mode | between module HI | between module |
| | Voltage(V _{CM}) | and LO | HI and LO |
| | | Assume MAXIMUM | Assume |
| | | V _{CM} | $V_{CM} = 0V$ |
| 7700 | 300V | OV | 300V |
| 7701 | 300V | OV | 150V |
| 7702 | 300V | OV | 300V |
| 7703 | 300V | OV | 300V |
| 7705 | 300V | OV | 300V |
| 7706 | 300V | OV | 300V |
| 7707 | 300V | OV | 300V |
| 7708 | 300V | OV | 300V |
| 7709 | 300V | OV | 300V |
| 7710 | 300V | OV | 60V |
| 7711 | 0V | 60V | 60V |
| 7712 | OV | 30V | 30V |

The maximum allowed input voltage at the HI and LO terminals is the difference between the maximum allowed common mode voltage (from specification) and the actual common mode voltage present in your system.

For example on the 7700 module where the common mode voltage specification is 300V and the maximum input voltage specification is 300V:

- Input Signal = 220V, then the Max common mode voltage allowed would be 80V.
- Input Signal = 50V, then the Max common mode voltage allowed would be 250V.