1. A Maximum cable length of 500 meters or 1,640 feet is allowed to connect any cable device to the associated apparatus. The total allowable cable length used to connect all of the U.S. devices to the associated apparatus is 9,708 meters or 32,000 feet.
2. Each cable (conduit) used to connect the device to the console must not exceed a capacitance of 328 μF per 100 μF per foot.
3. The total cable capacitance, combining all of the cable used to connect the intrinsically safe devices to the associated apparatus, must not exceed 17 μF.
4. Each cable must not exceed an inductance of 0.85 μH per 0.27 μH per foot.
5. The L/N ratio of the cable must not exceed 200 μH/μF.
6. For each TLS-300 console installed, the maximum number of devices connected to the associated apparatus is 532. A maximum of two TLS-300 consoles can be connected to the TLS-300 console where each connected TLS-300 console equals one U.S. device.
7. Non-hazardous associated apparatus, as shown, must be supplied from one or more intrinsically safe devices, connecting a source of material with perfect contact in excess of 250 μH in 250 μH in 10 μF in 250 μH in 10 μF.
8. Connect the earth ground to the earth bonding box at the power distribution panel with A 3 sq. mm (10 AWG) copper conductor.
9. Grounding must be at the place of the weatherproof junction box located in zone 1. Surge protection consists of either a certified intrinsically safe device or the associated apparatus.
10. A field analysis must be performed to determine if the installation location is suitable for connecting other devices. If necessary, additional protective devices such as a surge protector in place of the weatherproof junction box located in zone 1. Surge protection consists of either a certified intrinsically safe device or the associated apparatus.
11. It is the responsibility of the installer to determine compliance with the associated apparatus. Sample devices used with this system must comply with the following requirements:
   a. Constructed of non-conducting components only for conductive switches, junction boxes and junctions.
   b. Constructed without the sources of static energy such as batteries, capacitors, and transistors.
   c. Constructed without sources of generated energy that exceed more than 15V and 25W of sources that contain a means of impressing the voltage.
   d. If constructed with a function, the cable devices shall be capable of maintaining the test voltage to earth in accordance with Section 609-9-11, Clause 5.3.7.5 and terminals must comply with Section 609-9-11, Clause 5.3.7.5.
   e. Non-metallic enclosures and covers of other metals must comply with Section 609-9-26 Clause 5.3.3.
   f. Based on the available power within the system, the electrical components must exceed 15 sq. mm. for intrinsically safe apparatus, and must be connected in accordance with Section 609-9-11, Clause 5.3.3.
12. The equipment must be a submersible pressure connection in accordance with Section 609-9-26.
13. Special conditions for safe use, as defined in the descriptive of equipment and the site preparation guide manual, are 609-9-976, must be taken into account.
14. This system descriptive document describes the intrinsically safe equipment and associated apparatus that together form an intrinsically safe system.
15. TLS-300 consoles must be installed in an indoor, non-hazardous area in accordance with the descriptive system document and the installation instructions. Only one TLS-300 console can be connected to any single intrinsically safe apparatus as described on one of this document. Multiple sources of power, additional TLS-300 consoles or other associated apparatus, cannot be connected to the same intrinsically safe apparatus.
16. The Mag plus 1 series probe is marked on IC T4 or EC on IC T4. When used within this system, the device is limited to Group IA.