



CTI 2500 PROCESSORS NOW CLASS 1 DIVISION 2 CERTIFIED

Control Technology Inc have received final approval to classify the CTI 2500-Cxxx Processors for Class 1 Division 2 Groups A, B, C and D Hazardous Locations Certification. The full comprehensive CTI 2500 Series™ product listing is available on the UL Online Certifications Directory (Certificate NRAG.305321) via the following link ([Programmable Controllers for Use in Hazardous Locations](#))

The category covers Industrial Control Equipment, Programmable Controllers for Use in Hazardous locations. Equipment for use in Class 1 hazardous (classified) locations, as defined in the NEC, is tested with respect to acceptability of operation in the presence of flammable and explosive mixtures of specific vapors and gases with air. For the purposes of location classification for Divisions 1 and 2, such mixtures have been grouped on the basis of their characteristics as follows:

Class I, Group A — Atmospheres containing acetylene.

Class I, Group B — Atmospheres containing gases or vapors having either a maximum experimental safe gap (MESG) less than or equal to 0.45 mm or a minimum igniting current ratio (MIC ratio) less than or equal to 0.40. Examples of Group B materials are acrolein, butadiene, ethylene oxide, propylene oxide, hydrogen, and fuel and combustible process gases containing more than 30% hydrogen by volume.

Class I, Group C — Atmospheres containing gases or vapors having either a maximum experimental safe gap (MESG) greater than 0.45 mm and less than or equal to 0.75 mm, or a minimum igniting current ratio (MIC ratio) greater than 0.40 and less than or equal to 0.80. Examples of Group C materials are ethyl ether and ethylene.

Class I, Group D — Atmospheres containing gases or vapors having either a maximum experimental safe gap (MESG) greater than 0.75 mm or a minimum igniting current ratio (MIC ratio) greater than 0.80. Examples of Group D materials are acetone, ammonia, benzene, butane, cyclopropane, ethanol, gasoline, hexane, methane, methanol, naphtha and propane.



For additional information, see Equipment for Use in and Relating to Class I, II and III, Division 1 and 2 Hazardous Locations ([AAIZ](#)) or visit the Underwriters Laboratories website. (www.ul.com) .

Atlantic Pacific Automation Group