



Applied Resolution Technologies

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Your leading source of laser application technologies : Mining, Oil & Gas, Agriculture, Industrial, Medical, Veterinary.

Applied Resolution Technologies is pleased to announce a new Certification Issue. IECEx Certification and ISO9001 is all about continuous improvement. ART has a policy of always looking at staying two steps ahead of the rest. Being technically the best in our field provides our end users with the most advanced systems based on up-to-date technologies, so when you see new issues of Certification, it is because we keep moving forward.

ART has released 5 issues of IECEx Certification since 2009.

Issue #0 : IECEx SIM 09.0005 (2009)

Initial Certification of SLX-635P and BLX-635 products.

Issue #1 : IECEx SIM 09.0005 (2011)

Changing location details. Yes, we even need to re-issue our Certification for moving!!

Issue #2 : IECEx SIM 13.0005 (2012)

Development of new BLX-635S, BLX-515S and new removable battery modules.

Removal of Stott Industrial Supplies as Applicant. ART no longer deals with Stotts.

Issue #3: IECEx SIM 13.0005 (2014)

Adding new options to our battery module range.

Issue #4: IECEx SIM 13.0005 (2017)

Adding new products : FLXS-635-ST and –SC Intrinsically Safe FIBER TESTERS

Updating SLX-635S and SLX-515S Class 3R lasers (also available as Class 2 lasers) with new improved optics for longer range. These lasers will now replace the old LD-60.IS products that you used to use. In either red or green, and with removable battery modules or used with integral batteries in place of the original SLX-635P.

Updating component information to access newer and improved semiconductor components.

LASER SAFETY INFORMATION

All ART lasers conform with IEC 60825:1 and IEC 60825:2 laser safety standards.

Class 2 : < 1mW lasers in either red or green.

Class 2M : < 5mW lasers with expanded apertures, in either red or green that meet Class 2 requirements.

Class 3R : < 5mW lasers with small beams. Regulators allow use of these lasers in underground mines. AS2397 (2015) (Guide for use of lasers in Building and Construction) also permits.

Hazard Level 2M : A new classification for fiber-optic based systems. In this case, < 5mW visible laser.

Your Laser Safety Officer should be able to advise on what is permitted on your site. If there is any doubt, please discuss with us for further clarification.

SURFACE TEMPERATURE INFORMATION

Do you know what SURFACE TEMPERATURE actually refers to in Intrinsically Safe equipment? It relates to the maximum surface temperature of ANY component within the system. In the case of the ART products, miniature surface mount components have very small surfaces, and maximum power dissipation on failure condition can mean that there is a localized microscopic thermal source. Our SMD components are all potted in specially certified high temperature epoxies, on the very internals of the product. No hazardous gases can reach these components. However, because of the power dissipation ratings, some of our systems are rated as T1, T3 and T4. This doesn't mean that the surface temperature of the product reaches any limits. For the purposes of meeting the IECEx standards, all ART Certified products are appropriate for Zone 0 and the most onerous environments despite the surface temperature ratings.