



make your mark

ALLTEC Power Switch
All Solid-State Switch

Small Switch – Great Technology.

The *ALLTEC Power Switch*.

The Solution for High-Voltage Discharging in TEA CO₂ Lasers

Reliable high-voltage discharging in a TEA CO₂ laser? For a long time, this topic was linked with the word Thyatron and the constant and expensive replacement of tubes and the wear-prone rectifier. This can now be remedied by the innovative semiconductor technology in the *ALLTEC Power Switch*, or *APS* for short. With a small but sophisticated switch which quite simply eliminates all of the disadvantages of a thyristor-activated high-voltage module and offers many other advantages.

SIMPLE AND BETTER.

The modern *APS* semiconductor switch is the attractive and low-cost alternative to a Thyatron, and not only because it switches quickly when high voltage is required in laser mask markers. The switch, which ignites directly and efficiently, runs without a warm-up phase, so marking can begin immediately. Most important of all, the *APS* is significantly smaller than conventional high-voltage switching modules, thus making it easier to integrate into the laser. To round it all off, *APS* semi-



- Direct, efficient and fast high-voltage switching
- System start-up without warm-up phase
- Smaller than conventional high-voltage switching modules

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conductor technology distinguishes itself in particular through its toughness and easy handling: it runs without any oil whatsoever; there are no downstream tapped transformers or magnetic impulse compression and switch-induced misfiring, and last but not least, not even reverse current can affect the APS.

LASTS A LIFETIME.

A laser marker has to be reliable. Production downtime caused by wear-prone components not only costs time and money. What is required here are solutions which require only a few replacement parts, because they are not prone to wear, and which are effective, thanks to their durability. Solutions like the APS. While a Thyatron high-voltage modules lifetime ends after approx. 300 million markings, the APS just keeps on going and going – for an entire lifetime! And without any maintenance! Expressed in other words, this means more than a billion markings. Or a billion impulses during which production does not stand still, service costs are saved and the word 'economical' takes on a different meaning. Ergo: faster switching is more durable and makes production more efficient.

REPLACING THE EASY WAY.

The ALLTEC Power Switch is fitted in the laser mask markers of ALLMARK APS series as a standard feature, but it can also be installed subsequently in all other ALLMARK systems without any problems. The exchange is carried out simply and easily by our experienced ALLTEC service technicians.

- **Robust and easy to use:** oil-free operation, no downstream tapped transformers, no magnetic impulse compression, not sensitive to reverse current

- **Maintenance-free** throughout its entire service life (> 1 billion markings)
- **Outstanding reliability**
- Compared to conventional high-voltage switching modules: **drastically reduced downtime and service costs; excellent economy**



Do you have any questions about APS or subsequent installation into your ALLMARK system? Our International Service Centre will answer them knowledgeably and reliably at any time on **Tel. +49 (0) 38823-55-360.**

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