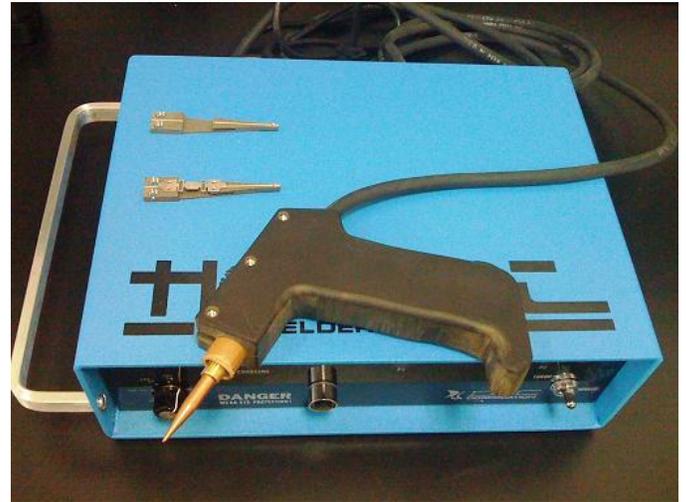


## Description

The T900 is a portable spot welder designed and manufactured in North America. It has been modified and upgraded with a custom designed welding gun and precision welding tip making it an ideal fit for spot welding the metal surfaces of various Fiber Bragg Grating (FBG) sensors packaged in steel frames, substrates, or enclosures, to a multitude of metal surfaces. The spot welder can accommodate FBG Sensor installations on both flat and curved surfaces.

Featuring an adjustable energy output, the T900 is suitable for use in the laboratory, production environment, or in the field. It is normally powered from an AC source but the T900 can also run on battery power using a commonly available car battery type kit.

The T900 spot welder is designed to make handling and installation of steel based FBG sensors fast, easy and intuitive. It delivers the performance normally expected from spot welders in this power range with the added benefit of lower cost and a design optimized for use with optical sensors.



## Key Features

**Designed for optical sensors.** The T900 is an industrial spot welder adapted for use with FBG based optical sensors. It was selected for its energy level that is appropriate for the size and materials generally used for optical sensors. The customized welding gun is an aftermarket improvement that significantly improves ease of use and handling.

**Rugged and portable.** Rugged construction did not prohibit this spot welder from still being portable. Significantly lighter than other designs of similar output energy, the T900 is well suited for projects that include sensors installation on test samples in laboratory conditions as well welding in the field for commercial and industrial applications.

**Easy to use.** Many optical sensors require multiple welding points per sensor. This fast-charging welding unit design makes handling and installation of such optical sensors a breeze. Also, sensor fastening methods for high-quality welds include commonly available clamps or even adhesive tapes to fit most sensor designs.

**Low cost and long lifetime.** The T900 spot welding system is a useful tool for customers who require both the availability of rugged low-cost equipment and stable operation for high quality welding projects over the long-term.

**Proven field performance.** The T900 welding system has been in production for several years and continues to receive superior customer feedback.

Parameter	Specifications
Voltage Rating	220V-250V 50Hz circuit, protected by 3 Amp breaker
Height	88.9 mm
Depth	215.9 mm
Width	292.1 mm
Weight	6.37 kg
Stored Weld Energy	5 Watt to 250 Watt
Weld Capability and Wire Gauge	Wire pairs of #14 Gauge or finer, and #8 Studs or lighter
Cycle Time	Charging Time @ Maximum Energy Setting < 10 seconds
Controls	Output energy adjustment, Two position energy range switch
LED Displays	LED for Charging Status LED for Energy Storage Status
Custom Gun and Tips	Included

## Applications in Laboratories, Production Facilities, Civil Engineering, Energy, Transportation.

Technica undertakes a rigorous development process before products release. The company is also firmly committed to continuous improvements after release to insure performance to the highest standards, hence, specifications are subject to update without notice.

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