

LIGHT TESTER UPGRADE KIT



LED LAMP UPGRADE

For Stolle Randolph LT Series Light Tester

A COMPLETE SYSTEM REQUIRES:

- TL102A LED Lamp (Qty 6)
- Mechanical Assembly Kit (Qty1)
- Electrical Assembly Kit (Qty 1)

BENEFITS:

- **Reduced Energy Consumption results in significant savings:** Currently, the four halogen lamps consume 500 watts each; whereas, each of the six LED lamp units consume only 30 watts. Assuming 24/7 operation and an electricity cost of \$.12/kWh, this would save nearly \$2000 per year in electricity alone.
- **Reduced Labor Cost & Downtime for unplanned lamp replacement:** The LED lamp has a life of 50,000 hours, as opposed to the 2,000 hour life of a halogen bulb. You'll only change the LED bulb every six years, instead of every 3 months.
- **Lower Operating Temperature Increases Safety:** The LED Lamps Operate at a much lower temperature than the halogen bulbs, increasing machine & operator safety.
- **Minimal Rework:** Everything needed to upgrade the system is included in the upgrade kit. The mechanical assembly kit includes aluminum brackets that are lightweight for easy installation. The Electrical Assembly Kit includes a power supply, breaker, contactors and a dimmer. Minimal rework is required for installation.
- **Full Coverage:** Includes six LED lamps for full can coverage



ABOUT TL102A

Prime Controls is helping can manufacturing plants go green while saving on costly downtime with the TL102A. With the use of LED technology, the TL102A is a LED Lamp Upgrade for all Stolle Randolph LT Series Can Body Light Testers by replacing the halogen lamps. Designed in conjunction with Stolle Machinery as a result of customer feedback requesting more cost effective light source for the Light Tester, the TL102A provides longer life and lower energy consumption out of the tester.

With a life of six plus years, the LED Lamps significantly reduces change overs required with the Halogen bulbs which needs changed every three months. This results in substantial savings by eliminating downtime and labor costs from unplanned lamp replacements. By switching to the TL102A LED Lamps, manufacturing plants also increase machine and operator safety due to lower temperature of the lamps.

HOW MUCH WILL YOU SAVE BY UPGRADING?

The TL102A LED Lamp Upgrade will result in significant savings overtime. But don't just take our word for it, let the numbers speak for themselves.

YEAR	HALOGEN BULB	LED LAMP
YEAR 1	\$10,342.40	\$8,689.22
Initial Investment	\$0.00	\$8,500.00
Bulb Cost	\$80.00	\$0.00
Energy Cost	\$2,102.40	\$189.22
Labor Cost Bulb Changout	\$160.00	\$0.00
Unscheduled Downtime Cost	\$8,000.00	\$0.00

One Year Payback! The upgrade pays for itself within the first year when the cost of unscheduled downtime is factored in.

YEAR	HALOGEN BULB	LED LAMP
YEAR 1	\$2,342.40	\$8,689.22
Initial Investment	\$0.00	\$8,500.00
Bulb Cost	\$80.00	\$0.00
Energy Cost	\$2,102.40	\$189.22
Labor Cost Bulb Changout	\$160.00	\$0.00
YEAR 2	\$2,342.40	\$189.22
Bulb Cost	\$80.00	\$0.00
Energy Cost	\$2,102.40	\$189.22
Labor Cost Bulb Changout	\$160.00	\$0.00
YEAR 3	\$2,342.40	\$189.22
Bulb Cost	\$80.00	\$0.00
Energy Cost	\$2,102.40	\$189.22
Labor Cost Bulb Changout	\$160.00	\$0.00
YEAR 4	\$2,342.40	\$189.22
Bulb Cost	\$80.00	\$0.00
Energy Cost	\$2,102.40	\$189.22
Labor Cost Bulb Changout	\$160.00	\$0.00
Total	\$9,369.60	\$9,256.88

Even when unscheduled downtime isn't a factor, the LED Upgrade pays for itself in less than four years with **Energy Cost Savings alone!** Within twelve years, you'll save nearly \$12,000 in Energy Expenditures, as savings continuing to grow overtime.

YEAR	HALOGEN BULB	LED LAMP
YEAR 1	\$10,342.40	\$8,689.22
Initial Investment	\$0.00	\$8,500.00
Bulb Cost	\$80.00	\$0.00
Energy Cost	\$2,102.40	\$189.22
Labor Cost Bulb Changout	\$160.00	\$0.00
Unscheduled Downtime Cost	\$8,000.00	\$0.00
YEAR 2	\$10,342.40	\$189.22
YEAR 3	\$10,342.40	\$189.22
YEAR 4	\$10,342.40	\$189.22
YEAR 5	\$10,342.40	\$189.22
YEAR 6	\$10,342.40	\$189.22
YEAR 7	\$10,342.40	\$6,149.22
Bulb Cost	\$80.00	\$5,940.00
Energy Cost	\$2,102.40	\$189.22
Labor Cost Bulb Changout	\$160.00	\$20.00
Unscheduled Downtime Cost	\$8,000.00	\$0.00
YEAR 8	\$10,342.40	\$189.22
YEAR 9	\$10,342.40	\$189.22
YEAR 10	\$10,342.40	\$189.22
YEAR 11	\$10,342.40	\$189.22
YEAR 12	\$10,342.40	\$189.22
Total	\$124,108.80	\$16,730.64

Unscheduled downtime is expensive for plants which rely upon continuous operation. The LED Upgrade could potentially **save over \$100,000** per machine over twelve years when unscheduled downtime is factored in.

For simplicity, the calculations were based upon certain assumptions listed below. Actual results may vary due to differences in energy cost, labor rate and unplanned downtime calculation.

- Based upon 24/7 operation
- Halogen Lamp Life of 2,000 hours. LED Lamp Life of 50,000.
- Halogen Replacement Bulb Cost of \$5/Lamp. LED Lamp Cost of \$990/lamp.
- Halogen Replacement Occurrence of 4 times/year. LED Lamp Replacement Occurrence of once every 6 years.
- Four Halogen Lamps per LT Tester. Six LED Lamps per LT Tester.
- Labor Cost Calculated at \$20/hour. Downtime of 30 minutes per Halogen Lamp.
- Unscheduled downtime is calculated at \$500/half hour.
- The investment cost for the LED Upgrade Kit is \$8,500 for the LT4-8-10 and \$9,900 for the LT12-16.
- Although variances may occur, cost savings with the TL102A LED Upgrade is absolutely certain.

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