# ProTran1

Giving Transit Workers a second chance!

152 Waterford Road, Blue Anchor, NJ 08037 Tel: 609-704-1737 Fax: 609-704-0565
www.protran1.com

## Product Information
## Personal Safety Devices

Leading Manufacturer of "Risk Reduction Technology" TM

March 2009

# ProTran1

Leading Manufacturer of "Risk Reduction Technology" ™

Wireless Advance Warning Devices
Track Walker, Work Crew, First Responder

## ProTracker™
### Track Walker / Worker - Train Operator Advance Warning Devices

101601-71

# PRODUCT INFORMATION BULLETIN

TD mounted in an operators cab.

Train Device (TD)
Placed in operators cab

Portable Warning Horn/Light (PWLH)
Placed in work zone

Personal Alert Device (PAD)
Worn by track personnel

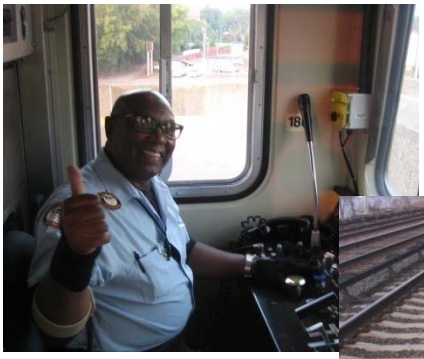
Flagger Device (FD)
Wireless Flagger Alarm

Safety Yellow
Vibrating
Audible
Blue Tooth

## DESCRIPTION

The ProTran1 ProTracker Train Device (TD) is designed to be mounted in the cab of a train. The train operator will be audibly and visually alerted of personnel near the train tracks who are wearing the ProTracker Personal Alert Devise (PAD) and Safety Yellow Blue-Tooth. These devices are meant to be a secondary warning to existing procedures. Never to be used as primary safety just as an additional back-up. Unit is never to replace a flagger or existing procedures.

The ProTracker Personal Alert Device (PAD) and the Portable Warning Lights/Horn (PWLH) communicate with the Train Device (TD). Once a train is detected both the PAD and PWLH will turn on giving warning to the work crew of an approaching train. It will also warn the train operator of the work crew up ahead. Also Ideal for advance warning for first responders and fire, chemical or biological releases.



## APPROVALS (TD) and (PAD)

| | |
|---|---|
| United States (FCC) | OUR-XBEE |
| Canada (IC) | 4214A-XBEE |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE – upon request |

## APPLICATIONS

- Advance warning to train operator of walker or work crew ahead.
- Advance warning to walker or work crew of approaching train.
- Advance warning to first responder of approaching train.
- Advance warning of fire, biological, chemical releases.
- Flagger device for advance warning of danger for work crew.
- Advance warning of stop signals and or collision avoidance.

## OPERATIONS

Refer to the ProTran1 Operations Manual.

## SPECIFICATIONS

### Train Device (TD) P/N 101601-71TD

Note: Specifications shown are for all models sold after the printed document date at the end of each bulletin.

•Repeaters may be required for severe locations.

| | |
|---|---|
| DC Input | 25-70 VDC @ 390mA maximum |
| Fuse Protected | 1 amp |
| Transceiver Frequency | Proprietary/Secure |
| Receiver Range* | Consult factory on range required |
| Enclosure | Polycarbonate / NEMA 4, 4x, 12 + 13 |
| Operating Temp | -40C to +85C |

# ProTracker™
# Track Walker / Worker - Train Operator Early Alarm System
## 101601-71

## SPECIFICATIONS CONTINUED

**Personal Alert Device (PAD). P/N 101601-71PAD, Portable Warning Light/Horn (PWLH). P/N 101601-71-PWLH, Flagger Device(FD). P/N 101601-71FD**

| | |
|---|---|
| Keypad | Durable Sealed Membrane Keypad – Eliminates Dust, Dirt and Moisture Failures |
| Enclosure | ABS Plastic – with IP66 Option |
| Power Requirements | 3.0 VDC |
| Battery Type and Life For PAD | PAD/FD (4) 3V Lithium Ion each, size AA , to equal 3.0VDC nominal. p/n 03-2023 energizer only. 50 hours life service when new |
| **Note: Current frequency settings are maintained in flash memory during battery replacement. No reprogramming of frequency setting is necessary!** | |
| Battery Life for PWLH (Active Usage) | Up to 3 months |
| Battery Life (Off Mode) | Up to 1 year |
| Transmit Frequency | Proprietary/Secure |
| RF Output Power | 10 mW |
| Transmit Range* | Consult factory on range required |

**Part Numbers for ordering**

| Item | Part Number |
|---|---|
| Train Device | 101601-71TD |
| Portable Warning Horn/Light | 101601-71PWLH |
| Personal Alert Device (PAD) | 101601-71 PAD |
| Flagger Device (FD) | 101601-71 FD |

Blue Tooth ordered separately

## DIMENSIONS

**Train Device (TD)**

Mounted in the operators cab

4" x 4" x 2.5" / 10.16cm x 10.16cm x 6.35cm
Weight 2lbs (.907kg)

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**Blue Tooth, Personal Armband Device (PAD) and (FD)**

*Worn on the workers Arm or hand held*

Safety Yellow
Vibrating
Audible
Blue Tooth

Blue Tooth - 2"x1" 5.00cm x 2.5cm
PAD and FD - 4" x 6" x 1.5" / 10.16cm x 15.24cm x 3.81cm
Weight 1lbs (.45kg)

**Portable Warning Light/Horn (PWLH)**

*Placed in work zone*

14" x 6" x 8" / 35.56cm x 15.24cm x 20.32cm
Weight 7lbs (3.17kg)

## LIMITED WARRANTY STATEMENT

ProTran1- branded products purchased in the U.S. or Europe come with a limited warranty; if properly used and installed, will be free from defects in material and workmanship for a period of 1-year after date of purchase. The warranty period is not extended if we repair or replace a warranted product or any parts. Said warranty to include the repair or replacement of defective equipment.

### What is not covered by this limited warranty?

This limited warranty does not cover:
Damage due to external causes, including accident, problems with electrical power, and usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing.
THIS LIMITED WARRANTY, AND ANY IMPLIED WARRANTIES THAT MAY EXIST UNDER STATE LAW, APPLY ONLY TO THE ORIGINAL PURCHASER OF THE EQUIPMENT, AND LAST ONLY FOR AS LONG AS SUCH PURCHASER CONTINUES TO OWN THE EQUIPMENT. THIS WARRANTY REPLACES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. PROTRAN1 MAKES NO EXPRESS WARRANTIES BEYOND THOSE STATED HERE. PROTRAN1 DISCLAIMS WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES SO THIS LIMITATION MAY NOT APPLY TO YOU.
TO OBTAIN WARRANTY SERVICE, CONTACT ProTran1 FOR A RETURN MATERIAL AUTHORIZATION. WHEN RETURNING EQUIPMENT TO ProTran1, THE CUSTOMER ASSUMES THE RISK OF DAMAGE OR LOSS DURING SHIPPING AND IS RESPONSIBLE FOR THE SHIPPING COSTS INCURRED.

# ProTran1

Leading Manufacturer of "Risk Reduction Technology" ™

Wireless Advance Warning Devices

Track Walker, Work Crew, First Responder

# PRODUCT INFORMATION BULLETIN

**Portable ProTracker**

## Portable Train Detector Kit

**MODEL 101601-75**

**Portable Train Detector (PTD) and Portable Warning Light/Horn (PWLH)**

Portable Train Detector
placed inside or outside of track

Portable Warning Horn/Light
Placed near work crew

Personal Alert
Worn by work crew

Flagger Device
Wireless flagger alarm

Patented
Optional Speed Tag / Reader

Safety Yellow
Vibrating
Audible
Blue Tooth

## DESCRIPTION

The ProTran1 Portable ProTracker is used to alert track work crews of an approaching train. It can alert work crews on existing or adjacent tracks. The system is only used as a secondary warning and never to be used as primary protection. This devices is not to take the place of a flagger.

The Portable ProTracker is light weight, user friendly, and takes only seconds to set up. The Personal Alert Device , Blue Tooth and Portable Warning Horn/Light communicates with the Portable Train Detector. Once a train is detected a secured alarm is sent to the workers that a train is approaching giving the work crew time to clear the tracks. The unit is equipped with several redundancies and health checks to ensure proper operation.

As options, the Portable ProTracker detects train direction , speed and can even automatically bring the train speed down to the agencies requirements in a work zone. The unit can be equipped with a fail safe mode.

## APPROVALS (TD) and (PAD)

| | |
|---|---|
| United States (FCC) | OUR-XBEE |
| Canada (IC) | 4214A-XBEE |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE – upon request |

## APPLICATIONS

- Advance warning to work crew of approaching train.
- Advance warning to train operator of work crew ahead.
- Advance warning to first responder of approaching train.
- Advance warning for hi-rail operator of approaching train.
- Flagger device for advance warning of danger for work crew.

## OPERATIONS

Refer to the ProTran1 Operations Manual.

## SPECIFICATIONS

Comes with carrying case

### Portable Train Detector (PTD) P/N 101601-75PTD

Note: Specifications shown are for all models sold after the printed document date at the end of each bulletin.

•Repeaters may be required for severe locations.

• PTD and PWLH battery life 3 months active 1 year non active. PAD/FD (4) 3V Lithium Ion each, size AA , to equal 3.0VDC nominal. p/n 03-2023 energizer only. 50 hours life service when new. PAD/FD Battery must be changed when red LED low battery shown.

| | |
|---|---|
| DC Input** | Re-Chargeable Battery Powered |
| Fuse Protected | Yes |
| Transceiver Frequency | Proprietary/Secure |
| Tx/Rx Range* | Based on agencies requirements |
| Enclosure | Polycarbonate / IP6, NEMA 4, 4x |
| Operating Temp | -40C to +85C |

101601-75 kit(s) comes with the following:

| QTY | Item | Part Number |
|---|---|---|
| 1 | Portable Train Detector | 101601-75PTD |
| 2 | Portable Warning Horn/Light | 101601-75PWLH |
| 2 | Personal Alert Device (PAD) | 101601-75 PAD |
| 1 | Flagger Device (FD) | 101601-75 FD |

Note: Blue Tooth and additional items per kit can be added.

**Portable ProTracker®**

# Portable Train Detector Kit

**MODEL 101601-75**

## DIMENSIONS

**Portable Train Detector (PTD)**
Placed inside or outside of track

10” x 12” x 5” / 25.4cm x 30.48cm x 12.7cm
Weight 12lbs (5.44kg)

**Blue Tooth, Personal Armband Device (PAD) and (FD)**
*Worn on the workers Arm or hand held*

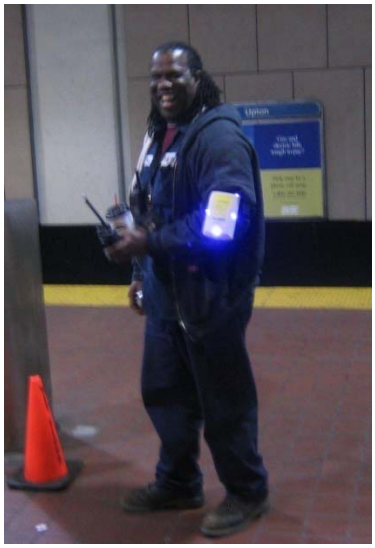
Safety Yellow
Vibrating
Audible
Blue Tooth

Blue Tooth - 2”x1” 5.00cm x 2.5cm
PAD and FD - 4” x 6” x 1.5” / 10.16cm x 15.24cm x 3.81cm
Weight 1lbs (.45kg)

**Portable Warning Light/Horn (PWLH)**
*Placed in work zone*

14” x 6” x 8” / 35.56cm x 15.24cm x 20.32cm
Weight 7lbs (3.17kg)

# Portable ProTracker®
# Portable Train Detector Kit
## MODEL 101601-75



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## What is not covered by this limited warranty?

This limited warranty does not cover:
Damage due to external causes, including accident, problems with electrical power, and usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing.
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# ProTran1

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**The Ultimate in Track Worker Protection**

# PRODUCT INFORMATION BULLETIN

## Wireless Portable Automatic Tripper

**MODEL 101601-85**

**Portable Automatic Tripper with Wireless Activation**

## DESCRIPTION

The ProTran1 Wireless Portable Automatic Tripper (PAT) allows flaggers to automatically raise and lower the trip arm remotely without fouling the track. Furthermore, with a PAT unit at the beginning and end of a work zone you can prevent trains from entering the work zone adversely. The system can be used within existing agency procedures. This device is not to take place of a flagger but to give the track crews that additional protection.

The PAT is lightweight, user friendly and takes only seconds to set up (slides under the running rail). This unit can also work with the Portable ProTracker. When working together it can alert the track crews of oncoming traffic.

The unit (PAT) is equipped with several redundancies and checks to ensure proper operation.

**APPROVALS (TD) and (PAD)**

| | |
|---|---|
| United States (FCC) | OUR-XBEE |
| Canada (IC) | 4214A-XBEE |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE – upon request |

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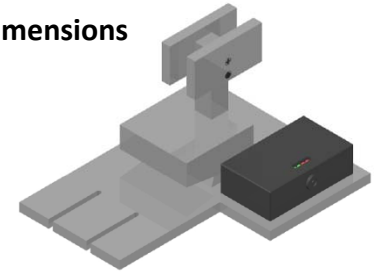
Lightweight and takes less than 10 seconds to install
(Simply slides and clamps under running rail)

## Dimensions



Portable Automatic Tripper with Flagger Device

FD - 4" x 6" x 1.5" / 10.16cm x 15.24cm x 3.81cm
Weight 1lbs (.45kg)
PAT -12" x 8" x 7" / 15.24cm x 20.32cm x 17.78cm
(4" when collapsed) Weight < 20 lbs (9kg)

## SPECIFICATIONS

Portable Automatic Tripper (PAD) P/N 101601-85
Wireless Handheld Device (WHD) P/N 101601-85
•Comes with carrying case

| | |
|---|---|
| DC Input** 12-24VDC | Re-Chargeable Battery Powered |
| Fuse Protected | Yes |
| Transceiver Frequency | Proprietary/Secure |
| Tx/Rx Range* | Based on agencies requirements |
| Construction | Impact resistant Poly. or Aluminum |
| Operating Temp | -40C to +85C |

101601-85 kit(s) comes with the following:

| QTY | Item | Part Number |
|---|---|---|
| 1 | Wireless Portable Automatic Tripper | 101601-85 PAT |
| 1 | Wireless Handheld Device | 101601-85 WHD |

# ProTran1

Made in U.S.A

## PRODUCT INFORMATION BULLETIN

**120VAC ProLight**
**120VAC LED Safety Light**
**MODEL 101601-1AC**

## DESCRIPTION

The ProTran1 ProLight - Reliable and Redundant 120VAC LED Safety Light indicates the presence of voltage. Simply connect the light directly to 120VAC and the unit is functional alerting personnel.

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | U.L. Listed Components |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/GREEN |

## APPLICATIONS

The ProLight should be installed anywhere a reliable 120VAC LED light is required to maintain high visibility and long lasting service in the most stringent weather and locations.

## INSTALLATION

Step #1 – 120VAC Power source.
Step #2 – Mount the ProLight in the area where indication of warning required.
Step #3 – Connect wires to the main 120VAC power source.

## SPECIFICATIONS

| | |
|---|---|
| LED | 80-200 EXTRA BRIGHT LEDs |
| LED Colors | Red, Green, Yellow, Amber, ETC… |
| Power Requirements | 120 VAC Nominal 220 available |
| Polar Sensitive | NO |
| Redundancies | 5 Main Boards – 10 groups of LEDs |
| Options | Alarm, Meter, Fuse upon request |
| Enclosure | Polycarbonate |
| Output | Less then 1/3 Amp (300 Ma) |
| Flashing | Flashing upon request |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

## DIMENSIONS

8" x 4" diameter / 20.32cm x 10.16cm
2 lbs / .907kg

### LIMITED WARRANTY STATEMENT

ProTran1- branded products purchased in the U.S. or Europe come with a limited warranty; if properly used and installed, will be free from defects in material and workmanship for a period of 1-year after date of purchase. The warranty period is not extended if we repair or replace a warranted product or any parts. Said warranty to include the repair or replacement of defective equipment.

### What is not covered by this limited warranty?

This limited warranty does not cover:
Damage due to external causes, including accident, problems with electrical power, and usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing.
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DOCUMENT DATE 12-Sept-08

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# ProTran1

# PRODUCT INFORMATION BULLETIN

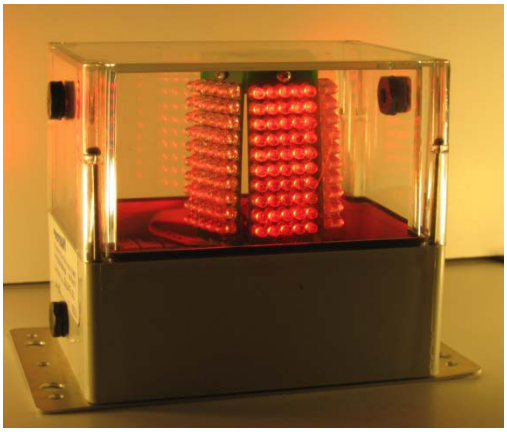
**1000VDC ProLight**
**1000VDC LED Safety Light**
**MODEL 101601-1DC**

## DESCRIPTION

The ProTran1 ProLight - Reliable and Redundant 75-1000VDC LED Safety Light indicates the presence of DC voltage. Ideal for Light Rail, Subway, or Third Rail applications. Simply connect the light directly to voltages up to 1000VDC and the unit is functional alerting personnel. Unit is equipped with 1500VDC surge suppression

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | U.L. Listed Components |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/GREEN |



Unit is equipped with 1500VDC surge suppression

## APPLICATIONS

The ProLight should be installed anywhere a reliable 1000VDC LED light is required to maintain high visibility and long lasting service.

## INSTALLATION

Step #1 – Identify DC Power source (unit rated for 1000VDC)
Step #2 – Mount the ProLight in the area where indication of warning required.
Step #3 – Connect one wire to the main DC power source and the other wire to ground.

## SPECIFICATIONS

| | |
|---|---|
| LED | 80-250 EXTRA BRIGHT LEDs |
| LED Colors | Red, Green, Yellow, Amber, ETC… |
| Power Requirements | 50-750VDC -1000VDC Max equipped with 1500VDC surge suppression |
| Polar Sensitive | NO |
| Redundancies | 5 Main Boards – 10 groups of LEDs |
| Options | Alarm, Meter, Fuse upon request |
| Enclosure | Polycarbonate |
| Output | Less then 1/3 Amp (300 Ma) |
| Rotating / Flashing | Rotating / Flashing upon request |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

## DIMENSIONS

6.25" x 4.5"x5.5" diameter / 15.87cm x 11.43cm x13.97cm
3.2 lbs / 1.45kg

### LIMITED WARRANTY STATEMENT

ProTran1- branded products purchased in the U.S. or Europe come with a limited warranty; if properly used and installed, will be free from defects in material and workmanship for a period of 1-year after date of purchase. The warranty period is not extended if we repair or replace a warranted product or any parts. Said warranty to include the repair or replacement of defective equipment.

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Damage due to external causes, including accident, problems with electrical power, and usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing.
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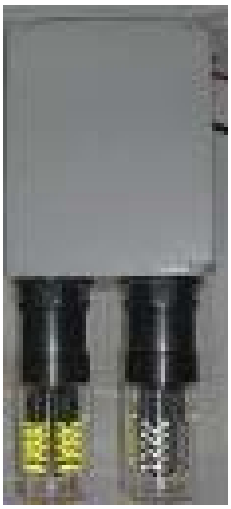
# ProTran1

**DualPower ProLight**
**Voltage Awareness Device**

**MODEL 101601-11**

# PRODUCT INFORMATION BULLETIN



GREEN LED for
49 VDC or less

RED LED for
50 - 1000 VDC

## DESCRIPTION

The ProTran1 DualPower ProLight gives extra reliability and redundancy. The DualPower ProLight indicates the presence of dangerous DC Voltage on a Light rail, Subway and Third Rail line. Simply connect the light as instructed and the unit will alert personnel of dangerous DC voltage from 50VDC to 1000VDC.

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | U.L. Listed Components |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/GREEN |

## APPLICATIONS

The DualPower ProLight should be installed on or near overhead doors, DC switches, stinger systems, overhead contact wire, third rail, tunnels, anywhere indication of live and dead power is required.

24 hour battery back-up available upon request.

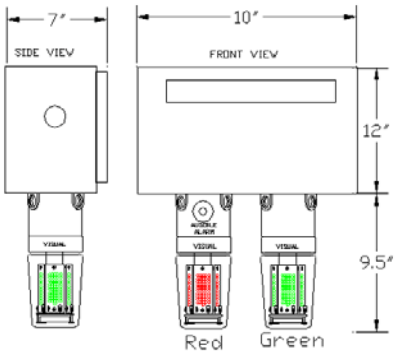
## SPECIFICATIONS

| | |
|---|---|
| LED | 80-250 EXTRA BRIGHT LEDs |
| LED Colors | Red, Green |
| Power Requirements | 50-1000VDC Max |
| Polar Sensitive | NO |
| Redundancies | 5 Main Boards – 10 groups of LEDs |
| Options | Alarm, Meter, Fuse upon request |
| Enclosure | Polycarbonate |
| Output | Less then 1/3 Amp (300 Ma) |
| Rotating / Flashing | Rotating / Flashing upon request |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

## DIMENSIONS

10” x 7” x 12” / 15.87cm x 25.4cm x17.78cm
8 lbs / 3.62kg

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ProTran1

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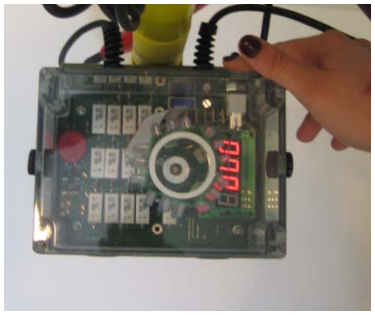
# ProTran1

Leading Manufacturer of "Risk Reduction Technology" ™

# PRODUCT INFORMATION BULLETIN

## ProCaT™
## Catenary Voltage Awareness Device
### MODEL 101601-2



Unit is equipped with 1500VDC surge suppression and push button voltage meter

## DESCRIPTION

The ProTran1 ProCaT was designed to give transit workers the Ability to safely verify the presence of voltage on Overhead Catenary systems. The ProCaT has a digital voltage meter to indicate from up to 1000VDC. The unit has several redundancies to ensure performance. Unit is equipped with 1500VDC surge suppression

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | U.L. Listed Components |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/GREEN |

## APPLICATIONS

The ProCaT is used to verify the presence of voltage for Overhead Catenary systems

## OPERATIONS

Refer to the ProTran1 Instruction Manual.

## SPECIFICATIONS

| | |
|---|---|
| LED | 80 EXTRA BRIGHT LEDs |
| LED Colors | Red |
| Power Requirements | 50-750VDC -1000VDC Max<br>equipped with 1500VDC surge suppression |
| Polar Sensitive | NO |
| Redundancies | 5 Main Boards – 10 groups of LEDs |
| Features | Alarms, Meter, rotating LED's |
| Enclosure | Polycarbonate |
| Output | Less then 1/3 Amp (300 Ma) |
| Telescopic Rod | Non-Conducting 4' thru 30' lengths |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

## DIMENSIONS

21 foot length x 2 inch diameter / 640cm x 5.08cm
15 lbs / 6.8kg
6 foot length / 154.2cm Collapsed length

**Comes with Carrying Case**

### LIMITED WARRANTY STATEMENT

ProTran1- branded products purchased in the U.S. or Europe come with a limited warranty; if properly used and installed, will be free from defects in material and workmanship for a period of 1-year after date of purchase. The warranty period is not extended if we repair or replace a warranted product or any parts. Said warranty to include the repair or replacement of defective equipment.

### What is not covered by this limited warranty?

This limited warranty does not cover:
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ProTran1

DOCUMENT DATE 12-Sept-08

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# ProTran1

Leading Manufacturer of "Risk Reduction Technology" ™

# PRODUCT INFORMATION BULLETIN

## ProCaT-T™
## Catenary Voltage Awareness Device
### MODEL 101601-2T

## DESCRIPTION

The ProTran1 ProCaT-T was designed to give transit workers the Ability to safely verify the presence of voltage on Trackless Trolley systems. The ProCaT-T has a digital voltage meter to indicate from up to 1000VDC. The unit has several redundancies to ensure performance. Unit is equipped with 1500VDC surge suppression

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | U.L. Listed Components |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/GREEN |

## APPLICATIONS

The ProCaT-T is used to verify the presence of voltage for Trackless Trolley systems

## OPERATIONS

Refer to the ProTran1 Instruction Manual.

## SPECIFICATIONS

| | |
|---|---|
| LED | 80 EXTRA BRIGHT LEDs |
| LED Colors | Red |
| Power Requirements | 50-750VDC -1000VDC Max<br>equipped with 1500VDC surge suppression |
| Polar Sensitive | NO |
| Redundancies | 5 Main Boards – 10 groups of LEDs |
| Features | Alarms, Meter, rotating LED's |
| Enclosure | Polycarbonate |
| Output | Less then 1/3 Amp (300 Ma) |
| Telescopic Rod | Non-Conducting 4' thru 30' lengths |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

Unit is equipped with 1500VDC surge suppression

## DIMENSIONS

21 foot length x 2 inch diameter / 640cm x 5.08cm
15 lbs / 6.8kg
6 foot length / 154.2cm Collapsed length

**Comes with Carrying Case**

### LIMITED WARRANTY STATEMENT

ProTran1- branded products purchased in the U.S. or Europe come with a limited warranty; if properly used and installed, will be free from defects in material and workmanship for a period of 1-year after date of purchase. The warranty period is not extended if we repair or replace a warranted product or any parts. Said warranty to include the repair or replacement of defective equipment.

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# ProTran1

Leading Manufacturer of "Risk Reduction Technology" TM

# PRODUCT INFORMATION BULLETIN

**ProCaT - 30KV**
**Catenary Voltage Awareness Device**
**MODEL 101601-2 – 30KV**

## DESCRIPTION

The ProTran 1 ProCaT™ - 30kv unit was designed to give transit workers and first responders the ability to safely verify the presence of voltage on Overhead Contact Systems. Through a patent pending wireless development, the unit safely separates the high voltage from contact with the voltage reading device making it safer for the user. The unit has a digital meter and alarm, which when activated indicates voltage from 60 volts – 30kv. The ProCat-30KV is the first unit that can give accurate readings within 1% of single phase 25, 50, and 60 HZ

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | U.L. Listed Components |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/**GREEN** |

## APPLICATIONS

The ProCaT 30kv is used to verify the accurate presence of voltage for Overhead Contact Systems from 60 Volts to 30KV single phase 25, 50, 60 Hz.

## OPERATIONS

Refer to the ProTran1 Instruction Manual.

## SPECIFICATIONS

| | |
|---|---|
| Enclosure | Polycarbonate |
| Voltage Operation | 60 volts – 30,000 volts single phase |
| Digital Meter | 60 volts – 30,000 volts single phase |
| Phase | Single 25,50 and 60 Hz |
| Redundancies | Greater or less than 60 volts |
| Safety Features | Alarm, Digital Meter, |
| Telescopic Rod | Non-Conducting 4' thru 30' lengths |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

## DIMENSIONS

21 foot length x 2 inch diameter / 640cm x 5.08cm
15 lbs / 6.8kg
6 foot length / 154.2cm Collapsed length

**Comes with Carrying Case**

## LIMITED WARRANTY STATEMENT

ProTran1- branded products purchased in the U.S. or Europe come with a limited warranty; if properly used and installed, will be free from defects in material and workmanship for a period of 1-year after date of purchase. The warranty period is not extended if we repair or replace a warranted product or any parts. Said warranty to include the repair or replacement of defective equipment.

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# ProTran1

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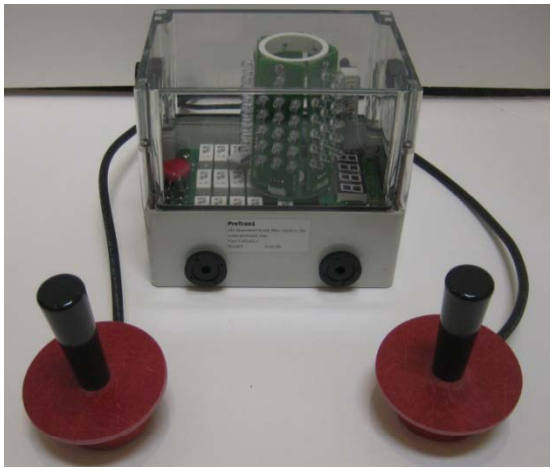
# PRODUCT INFORMATION BULLETIN

## ProTR™
## Third Rail Voltage Awareness Device
### MODEL 101601-3



Unit is equipped with 1500VDC surge suppression

## DESCRIPTION

The ProTran1 ProTR was designed to give transit workers the Ability to safely verify the presence of voltage on third rail systems. The ProTR has a digital voltage meter to indicate from up to 1000VDC. The unit has several redundancies to ensure performance. Unit is equipped with 1500VDC surge suppression

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | U.L. Listed Components |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/GREEN |

## APPLICATIONS

The ProTR is used to verify the presence of voltage for Third Rail systems.

## OPERATIONS

Refer to the ProTran1 Instruction Manual.

## SPECIFICATIONS

| | |
|---|---|
| LED | 80 EXTRA BRIGHT LEDs |
| LED Colors | Red |
| Power Requirements | 50-750VDC -1000VDC Max<br>equipped with 1500VDC surge suppression |
| Polar Sensitive | NO |
| Redundancies | 5 Main Boards – 10 groups of LEDs |
| Features | Alarms, Meter, rotating LED's |
| Enclosure | Polycarbonate |
| Output | Less then 1/3 Amp (300 Ma) |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

## DIMENSIONS

6.25" x 4.5"x5.5" diameter / 15.87cm x 11.43cm x13.97cm
3.2 lbs / 1.45kg

**Comes with Carrying Case**
Option: Alligator clamps available

Also available for bottom running Third Rail

## LIMITED WARRANTY STATEMENT

ProTran1- branded products purchased in the U.S. or Europe come with a limited warranty; if properly used and installed, will be free from defects in material and workmanship for a period of 1-year after date of purchase. The warranty period is not extended if we repair or replace a warranted product or any parts. Said warranty to include the repair or replacement of defective equipment.

### What is not covered by this limited warranty?

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# ProTran1

Leading Manufacturer of "Risk Reduction Technology" ™

# PRODUCT INFORMATION BULLETIN

## TRPro™
## Voltage Awareness Device
### MODEL 101601-3NY

## DESCRIPTION

The ProTran1 TRPro™ was designed to allow transit workers the ability to safely indicate the presence of Third Rail voltage. The unit indicates voltage from 125 to 750 VDC.

## APPROVALS

| | |
|---|---|
| United States | U.L. Listed Components |

## APPLICATIONS

The TRPro is used to verify the presence of voltage on Third Rail Systems from 125 – 750 VDC max.

## OPERATIONS

Refer to the ProTran1 Instruction Manual.

## SPECIFICATIONS

| | |
|---|---|
| Safety Features | Alarm, two bulbs (red and white) |
| Enclosure | ABS Plastic – Lexan housing |
| Voltage Operation | 125 – 750 VDC max |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

## DIMENSIONS

6" x 12" x 8" / 15.24cm x 30.48cm x20.32cm
3.2 lbs / 1.45kg

**Comes with Carrying Case**

### LIMITED WARRANTY STATEMENT

ProTran1- branded products purchased in the U.S. or Europe come with a limited warranty; if properly used and installed, will be free from defects in material and workmanship for a period of 1-year after date of purchase. The warranty period is not extended if we repair or replace a warranted product or any parts. Said warranty to include the repair or replacement of defective equipment.

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# ProTran1

Leading Manufacturer of "Risk Reduction Technology" ™

Made in U.S.A

# PRODUCT INFORMATION BULLETIN

**MiniPro**
**Handheld Voltage Awareness Device**
**MODEL 101601-8**

## DESCRIPTION

The ProTran 1 MiniPro was designed to give transit workers the ability to safely verify the presence of voltage. The unit has the redundancy of an audible alarm, in addition to (6) six LED's.
NO BATTERY REQUIRED.

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | U.L. Listed Components |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/**GREEN** |

## DIMENSIONS

6"x 2"x 1" diameter / 15.24cm x 5.08cm x2.54cm
.5 lbs / .22kg

**Comes with Carrying Case**

## APPLICATIONS

The MiniPro is used to verify the presence of voltage on transit systems.

## OPERATIONS

Refer to the ProTran1 Instruction Manual.

## SPECIFICATIONS

| | |
|---|---|
| LED | 6 EXTRA BRIGHT LEDs |
| LED Colors | Red |
| Power Requirements | 50-1500VDC Max |
| Polar Sensitive | NO – Intermittent use only |
| Redundancies | Alarm and LEDs |
| Features | Alarms, LED's, no batteries, 1500VDC Max |
| Enclosure | Polycarbonate |
| Output | Less then 1/3 Amp (300 Ma) |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

## WARNING:

The ProTran1 Mini Pro Plus and MiniPro are made to be used intermittently. Do not leave connected for more than 1 minute and allow to cool for 1 minute.

## LIMITED WARRANTY STATEMENT

ProTran1- branded products purchased in the U.S. or Europe come with a limited warranty; if properly used and installed, will be free from defects in material and workmanship for a period of 1-year after date of purchase. The warranty period is not extended if we repair or replace a warranted product or any parts. Said warranty to include the repair or replacement of defective equipment.

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# ProTran1

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# PRODUCT INFORMATION BULLETIN

## MiniPro PLUS™
## Handheld Voltage Awareness Device
### MODEL 101601-8 PLUS

## DESCRIPTION

The ProTran 1 MiniPro PLUS was designed to give transit workers the ability to safely verify the presence and range of voltage. The unit has the redundancy of an audible alarm, in addition to (8) eight LED's.
NO BATTERY REQUIRED.

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | U.L. Listed Components |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/GREEN |

## DIMENSIONS

6"x 2"x 1" diameter / 15.24cm x 5.08cm x2.54cm
.5 lbs / .22kg

**Comes with Carrying Case**

## APPLICATIONS

The MiniPro Plus is used to verify the presence and range of voltage on transit systems.

Range: 50, 150, 200, 600, 750, 1000,1200, 1500 VDC.

## OPERATIONS

Refer to the ProTran1 Instruction Manual.

## SPECIFICATIONS

| | |
|---|---|
| LED | 8 EXTRA BRIGHT LEDs |
| LED Colors | Red |
| Power Requirements | 50-1500VDC Max |
| Polar Sensitive | NO – Intermittent use only |
| Redundancies | Alarm and LEDs |
| Features | Alarms, LED's, no batteries, 1500VDC Max |
| Enclosure | Polycarbonate |
| Output | Less then 1/3 Amp (300 Ma) |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

### WARNING:

The ProTran1 Mini Pro Plus and MiniPro are made to be used intermittently. Do not leave connected for more than 1 minute and allow to cool for 1 minute.

### LIMITED WARRANTY STATEMENT

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# ProTran1

Leading Manufacturer of "Risk Reduction Technology" ™

## Voltage Awareness Devices

## ProHot Stick – 101601-10

- LED Display
- 50 - 1500VDC
- No Batteries
- Audible Alarm
- Visual Alarm
- NRTL Certified

# ProTran1

Leading Manufacturer of "Risk Reduction Technology" ™

## ProHot Stick™
## Handheld Voltage Awareness Device
MODEL 101601-10

# PRODUCT INFORMATION BULLETIN

## DESCRIPTION

The ProTran 1 Hot Stick was designed to meet the 12" rule and give transit workers the ability to safely verify the presence and range of voltage. The unit has the redundancy of an audible alarm, in addition to (8) eight LED's, voltage reading. More important is that NO BATTERY ARE REQUIRED.

Several options are available upon request:

1. Magnet attachment
2. Hook attachment for Catenary
3. Quick connects to easily switch from one attachment to another.
4. Comes with its own carrying case.

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | ETL / CSA Certified |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/GREEN |

## DIMENSIONS

16"x 2"x 1" diameter / 40.64cm x 5.08cm x2.54cm
1 lbs / .44kg

**Comes with Carrying Case** adjustable shoulder strap
water-proof codura fabric

## APPLICATIONS

The Hot Stick is used to verify the presence and range of voltage on transit systems.
Range: 50, 150, 200, 600, 750, 1000,1200, 1500 VDC.

## OPERATIONS

Refer to the ProTran1 Instruction Manual.

## SPECIFICATIONS

| | |
|---|---|
| LED | 8 EXTRA BRIGHT LEDs |
| LED Colors | Red |
| Power Requirements | 50-1500VDC Max |
| Polar Sensitive | NO – Intermittent use only |
| Redundancies | Alarm and LEDs |
| Features | Alarms, LED's, no batteries, 1500VDC Max |
| Enclosure | Polycarbonate |
| Output | Less then 1/3 Amp (300 Ma) |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

**Options:** Replaceable tips for hook or magnet with quick connections for longer cable leads.

**What is not covered by this limited warranty?**
This limited warranty does not cover:
Damage due to external causes, including accident, problems with electrical power, and usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing.

**WARNING:**
The ProTran1 ProHot Stick is made to be used intermittently. Do not leave connected for more than 2 minutes and allow to cool for 2 minutes.

Le ProTran1 Baton de ProHot est fait être intermittemment utilisé. Ne pas partir connecté pour plus que 2 minutes et permet de refroidir pour 2 minutes.


ProTran1

DOCUMENT DATE 29-Jan-09
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# ProTran1

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# PRODUCT INFORMATION BULLETIN

## ProMax™
## Handheld Voltage Awareness Device
### MODEL 101601-Max

## DESCRIPTION

The ProTran 1 ProMax was designed to meet the 12" rule and give transit workers the ability to safely verify the presence and range of voltage. The unit has the redundancy of an audible alarm, in addition to (8) eight LED's. NO BATTERY REQUIRED.

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | ETL / UL Listed components |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/GREEN |

## DIMENSIONS

6"x 2"x 1" diameter / 15.24cm x 5.08cm x2.54cm
.5 lbs / .22kg

**Comes with Carrying**
adjustable shoulder strap
water-proof codura fabric

## APPLICATIONS

The ProMax is used to verify the presence of voltage on transit systems.

## OPERATIONS

Refer to the ProTran1 Instruction Manual.

## SPECIFICATIONS

| | |
|---|---|
| LED | 6 EXTRA BRIGHT LEDs |
| LED Colors | Red |
| Power Requirements | 50-1500VDC Max |
| Polar Sensitive | NO – Intermittent use only |
| Redundancies | Alarm and LEDs |
| Features | Alarms, LED's, no batteries, 1500VDC Max |
| Enclosure | Polycarbonate |
| Output | Less then 1/3 Amp (300 Ma) |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

## WARNING:

The ProTran1 ProMax is made to be used intermittently. Do not leave connected for more than 2 minutes and allow to cool for 2 minutes.

Le ProTran1 Baton de ProHot est fait être intermittemment utilisé. Ne pas partir connecté pour plus que 2 minutes et permet de refroidir pour 2 minutes.

## LIMITED WARRANTY STATEMENT

ProTran1- branded products purchased in the U.S. or Europe come with a limited warranty; if properly used and installed, will be free from defects in material and workmanship for a period of 1-year after date of purchase. The warranty period is not extended if we repair or replace a warranted product or any parts. Said warranty to include the repair or replacement of defective equipment.

### What is not covered by this limited warranty?

This limited warranty does not cover:
Damage due to external causes, including accident, problems with electrical power, and usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing.
THIS LIMITED WARRANTY, AND ANY IMPLIED WARRANTIES THAT MAY EXIST UNDER STATE LAW, APPLY ONLY TO THE ORIGINAL PURCHASER OF THE EQUIPMENT, AND LAST ONLY FOR AS LONG AS SUCH PURCHASER CONTINUES TO OWN THE EQUIPMENT. THIS WARRANTY REPLACES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. PROTRAN1 MAKES NO EXPRESS WARRANTIES BEYOND THOSE STATED HERE. PROTRAN1 DISCLAIMS WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES SO THIS LIMITATION MAY NOT APPLY TO YOU.
TO OBTAIN WARRANTY SERVICE, CONTACT ProTran1 FOR A RETURN MATERIAL AUTHORIZATION. WHEN RETURNING EQUIPMENT TO ProTran1, THE CUSTOMER ASSUMES THE RISK OF DAMAGE OR LOSS DURING SHIPPING AND IS RESPONSIBLE FOR THE SHIPPING COSTS INCURRED.

ProTran1

DOCUMENT DATE 12-Sept-08

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# ProTran1

Leading Manufacturer of "Risk Reduction Technology"™

# PRODUCT INFORMATION BULLETIN

**ProPower™**

**1-750VDC Portable Power Supply**

**MODEL 101601-9**

## DESCRIPTION

Independent 750VDC source for the testing/verifying of ProTran1 and other safety equipment. The ProTran1 ProPower is a portable 750VDC @ 20 MA power supply and was designed to allow transit workers the ability to safely test safety equipment independently from the main power source of the Catenary wire and Third Rail. NEC requires that testing of equipment for live DC be done by an independent source.

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | U.L. Listed Components |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/**GREEN** |

## APPLICATIONS

The ProPower™ portable power supply is used as an independent 0 to 750VDC source for testing safety equipment to verify that it is in proper operation.

## OPERATIONS

Refer to the ProTran1 Instruction Manual.

## SPECIFICATIONS

| | |
|---|---|
| Display | Digital Voltage Display |
| Enclosure | ABS Plastic |
| Voltage Operation | 1 – 750 VDC |
| Fused Switch | 2 Amps |
| Input | 120VAC |
| Output | 0-750 VDC @ 20ma |
| Portable Adapter | 12VDC Vehicle Adapter (Optional) |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

## DIMENSIONS

6"x 6"x 6" diameter / 15.24cm x 15.24cm x 15.24cm
10 lbs / 4.40kg

**Comes with Carrying Case**

### LIMITED WARRANTY STATEMENT

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# ProTran1

Leading Manufacturer of "Risk Reduction Technology" ™

## PRODUCT INFORMATION BULLETIN

**Pro Portable Lamp Bank ™**
**1000VDC White LED Portable Lamp Bank for MOW**
**MODEL 101601-PLB**

## DESCRIPTION

The Patented ProTran 1 LED Portable Lamp Bank was designed to eliminate the use of un-safe antiquated incandescent light bank technology. ProTran1 developed an LED-based portable lighting system that operates at 1000VDC continuously with surge suppression of anything greater than 1500VDC.

## APPROVALS

| | |
|---|---|
| United States | KEMA |
| United States | ETL Approval equal to UL |
| Europe (CE) | ETSI |
| Europe | RoHS/WEEE/GREEN |

## APPLICATIONS

The ProPortable Light Bank is used to safely illuminate hazardous underground operating environments for MOW workers using the third rail or catenary as the power source. Features include built in voltage meter and momentary push button / alarm to ensure operation.
Fail-Safe option available upon request.

## OPERATIONS

Refer to the ProTran1 Instruction Manual.

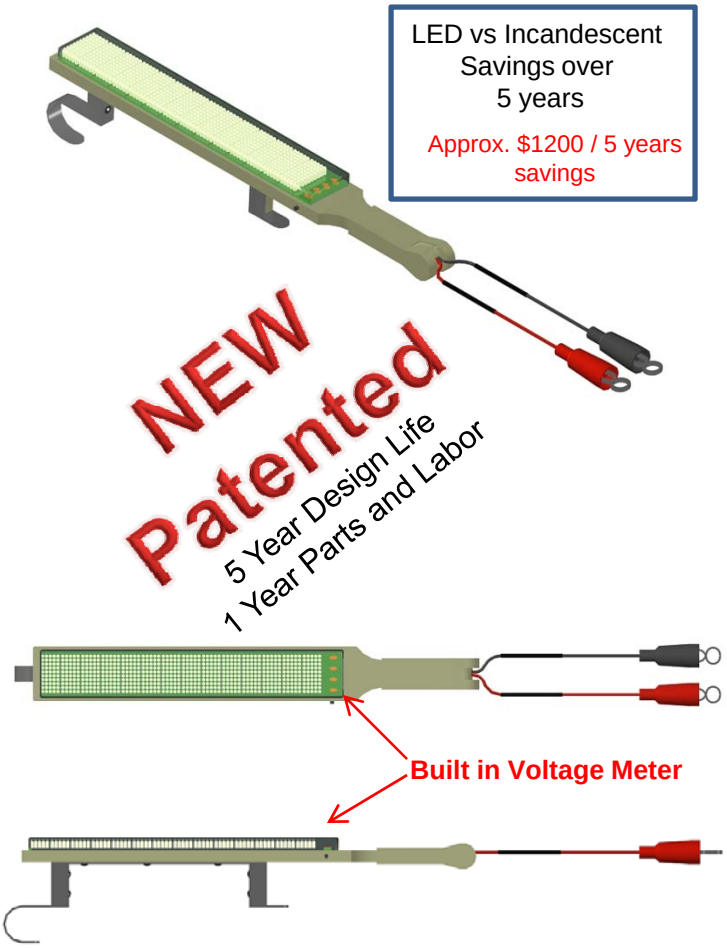
## SPECIFICATIONS

| | |
|---|---|
| LED | Multiple EXTRA BRIGHT LEDs |
| LED Colors | Extra Bright White |
| Power Requirements | 50-1500VDC Max |
| Polar Sensitive | NO – continuous use |
| Redundancies | Alarm, volt meter and LEDs |
| Features | Alarms, LED's, no batteries, 1500VDC Max |
| Enclosure | Polycarbonate |
| Output | Approx. 80 W |

Note: specifications shown are for all models sold after the printed document date shown below on each bulletin.

LED vs Incandescent Savings over 5 years

Approx. $1200 / 5 years savings




## Dimensions

27.5"x 4"x 4" / 69.9cm x 10.16cm x10.16cm
8 lbs / 3.62kg

**Comes with Carrying**
adjustable shoulder strap
water-proof codura fabric

ProTran1

DOCUMENT DATE 20-Dec-08

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