

**SAFE-T-TRIP™**

AC TRIP UNITS

REMOTE TRIP DEVICE

Reduce Arc Flash Risk  
and Determine if the Breaker Mechanism  
Needs Service With the SAFE-T-TRIP Device

**Remote Breaker Trip**

The SAFE-T-TRIP device provides a means for an operator to trip (open) a circuit breaker without standing directly in front of the breaker while it opens. This added distance from the breaker reduces the arc flash risk to the operator.

**Compatible URC Trip Units**

The SAFE-T-TRIP device is compatible with the following Utility Relay Company trip units:

- AC-PRO-II
- RIU (Remote Interface Unit) for the AC-PRO-II
- AC-PRO-MP
- AC-PRO-MP-II

The SAFE-T-TRIP device is a hand held device with a control panel and a 5 meter (16 foot) USB cable attached. The USB cable is plugged into the port on one of the compatible trip units.

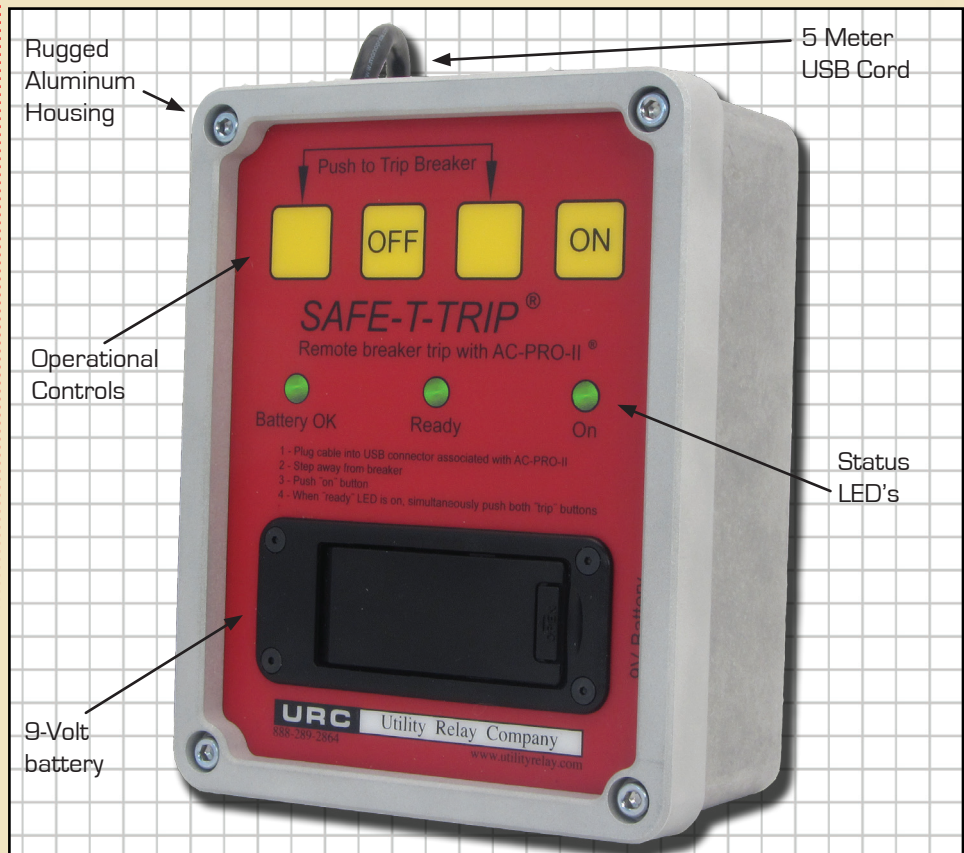
**USB Communications**

The USB cable allows for 2-way communication between the trip unit and the SAFE-T-TRIP device. The power needed to initiate a trip is also provided through the USB cable. The USB cable is permanently attached to the SAFE-T-TRIP device. No other USB devices are able to initiate a remote trip.

**SAFE-T-TRIP Device Power**

The SAFE-T-TRIP Device is powered by a 9-volt battery that will power up the trip unit and initiate a trip even if there is no power coming to the trip unit from CTs or an external power source. The battery is very easy to change using the battery access door on the front of the unit.

There is also a Battery OK LED indicator that notifies the user when the battery is reaching the end of its useful life.

**SAFE-T-TRIP Device Operation**

The operation of the SAFE-T-TRIP Device is very simple.

- The operator plugs the USB cable from the SAFE-T-TRIP device into the USB port on a compatible trip unit.
- After stepping away from the breaker the operator will turn on the SAFE-T-TRIP Device.
- The SAFE-T-TRIP device will communicate with the compatible unit and make sure it is ready to be force tripped.
- When everything is ready the "Ready" LED will be on.
- Once the ready LED is on, the force trip can be initiated by simultaneously pressing the 2 trip buttons.
- The trip unit will receive the force trip command and will fire the actuator to open the breaker.
- Once the remote operation of the breaker is complete the operator can unplug the SAFE-T-TRIP device.

**Determining if the Breaker Mechanism Needs Service Using the SAFE-T-TRIP**

All of the URC trip units that are compatible with the SAFE-T-TRIP device also have the patented Sluggish Breaker™ detection system. Sluggish Breaker detection determines if the breaker mechanism needs service as indicated by slow operation during the first trip. Later operations are faster because the breaker mechanism was exercised.

The SAFE-T-TRIP device can be used to initiate the first trip before racking out a breaker. When the trip unit initiates a breaker trip, it measure the time between triggering the actuator and when each pole interrupts the current. If this time is greater than 33 Milli-Seconds the Sluggish Breaker alarm is set. If the sluggish Breaker alarm was set, that is an indicator that the breaker mechanism should be serviced.