FOX METER, INC

INSTRUMENTATION FOR INDUSTRY

AS1000 - Arc Smart

AFCI branch circuit tester
All solid state, microprocessor based
Simulates parallel arcing and ground fault

General Specifications

Electrical:

- **Polarity Indicator:** Three LEDs indicate proper wiring to the outlet being tested
- **Arc test:** 120Hz, 400uS pulse width, 112 Amp load for 12 half cycles to trip AFCI breakers
- **GFCI test:** applies a 7 mA leakage current for upto 1/2 second, to the ground line to trip GFCI breakers
- **Power cord:** 18" standard NEMA 5-15P / EIA 320 is included
- **Power:** 120VAC, 15 or 20 Amp branch circuit

Physical:

- **Size:** 3" x 7" x 1-1/2"
- **Material:** High impact, flame retardant, ABS
- **Overlay:** acrylic laminate
- **Construction:** PCB G10, UL-VO94, flame retardant
- **Sealing:** NEMA 1, 2, 3, and 12
- **Storage temperature:** -55ºC to +80ºC
- **Operating temperature:** -25ºC to +80ºC

Operation

To perform AFCI branch circuit tests, begin by testing the AFCI breaker by using its test button. Then reset the breaker and plug the AS1000 into the last outlet on the branch. The polarity indicators must light, indicating power is present at the outlet. Compare lighted indicators to the chart on the AS1000 to verify that the outlet is wired properly.

The ready indicator led indicates that the tester is ready to perform the arc test. Next, press the arc test switch. The breaker must trip within 200mS, extinguishing the polarity indicators. The circuit can be retested after the ready LED relights.If the breaker fails to trip, there is a problem with the branch circuit wiring requiring corrective action.

The GFCI test, begin by testing the GFCI breaker or GFCI outlet by using the test button. Next, reset the outlet or breaker and plug the AS1000 into the protected outlet and press the GFCI test button. The breaker or outlet should interrupt power and the indicators on the tester should extinguish.

Cautions

Use of the AS1000 Arc Smart tester is not a substitute for sound wiring practices and standards. The AS1000 simulates specific 'must trip' conditions and does not simulate all possible arcing conditions. Always follow manufacturer's instructions and local codes for installation of AFCI breakers and branch circuits. No warranties specific or implied are extended to the installers or manufacturers of any equipment of the branch circuits tested by the AS1000.

Ordering information

Purchase direct from Fox Meter, Inc., credit card orders prefered. Contact Fox for other payment options and/or quantity discounts. List price for the AS1000 is $149 US, FOB: Cortland, IL. Delivery from stock. The AS1000 is warranted to be free of manufacturing defects for a period of one year.

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