

# AT-6000-EUR Series Advanced Wire Tracer Series

#### Trace energized/de-energized wires, identify breakers and fuses

The AT-6000-EUR Series, available in two different kits, combines a receiver and powerful transmitter to locate energized and de-energized wires, breakers and fuses. Whether you're a novice or an expert, the Beha-Amprobe advanced wire tracer kit will help you get the job done fast.

The AT-6000-RE Receiver detects the signal in wires and cables using two methods: active tracing method (with the Transmitter) and passive tracing method (without the Transmitter). In hard-to-reach areas, the Receiver's Tip Sensor can be used to trace wires in corners, tight spaces and junction boxes. The breaker/fuse mode provides an advanced tracing function to locate and identify the correct breaker/fuse in a quick and very convenient way.

The AT-6000-TE Transmitter works on Energized and Deenergized circuits up to 600 V AC/DC in Category I through Category III electrical environments and features high signal, low signal, and loop modes. The Breaker Identification feature eliminates confusion of multiple false positives, common with older technology tracing tools, by identifiying the one correct breaker or fuse with the highest recorded signal.

The CT-400-EUR Signal Clamp (optional for AT-6020-EUR, included with AT-6030-EUR) is used for applications where is no access to the bare conductors by enabling the AT-6000-TE Transmitter to induce a signal into a wire through the insulation.











Identify the single correct breaker

#### Trace energized and de-energized wires/cables

#### **Main Applications**

- Trace Energized and De-energized wires
- Identify breakers and fuses
- Non-contact voltage mode and passive tracing

#### **Special Applications**

- RCD-protected circuit wire tracing
- Find breaks, openings, and shorts
- Trace non-metallic pipes and conduits
- Trace wires in metal conduit
- Trace shielded wires
- Trace underground wires
- Trace low voltage wires and data cables
- Sort bundled wires
- Map circuits
- Trace breakers/fuse on system with light dimmers
- CT-400-EUR signal clamp (AT-6030-EUR kit) to allow tracing when there is no access to bare conductors







#### **Features**

|                                       | AT-6000-RE Receiver   | AT-6000-TE Transmitter  | CT-400-EUR Signal Clamp                            |
|---------------------------------------|---|---|--|
| Measurement category                  | CAT III 600 V   |   | CAT IV 600 V, CAT III 1000 V                       |
| Operating voltage                     | 0 to 600 V AC/DC  |   | 0 to 1000 V AC                                     |
| Operating frequency                   | Energized: 6.25 kHz<br>De-Energized: 32.768 kHz   |   | Wire tracing: 32.768 kHz                           |
| Voltage detection                     | See NCV detection   | > 30 V AC/DC  | -  |
| Signal indications                    | Numeric, bar graph display and audible beep   | LEDs and audible beep   | _  |
| Response time                         | Tip Sensor (energized/de-energized): 500 ms<br>NCV: 500 ms<br>Battery voltage monitoring: 5 sec   | Line voltage monitoring: 1 sec<br>Battery voltage monitoring: 5 sec   | Instantaneous                                      |
| Current output of signal<br>(typical) | -   | Energized circuit: HI mode: 60 mA RMS LO mode: 30 mA RMS De-energized circuit: HI mode: 130 mA RMS LO mode: 40 mA RMS Loop mode: 160 mA RMS | -  |
| Signal voltage output<br>(nominal)    | -   | <b>De-energized circuit:</b> LOW: 29 V RMS, 120 Vp-p HIGH: 33V RMS, 140 Vp-p <b>With CT-400-EUR:</b> loop model: 31 V RMS, 120 Vp-p         | <b>De-energized circuit:</b><br>2.4 V RMS, 24 Vp-p |
| Range detection (open air)            | Tip sensor (Energized):  Max distance via air: up to 6.1 m (20 ft) Pinpointing: approx. 5 cm (1.97 inz)  Tip sensor (De-energized):  Max distance via air: up to 4.5 m (14.7 ft) Pinpointing: approx. 5 cm (1.97 in)  NCV detection (40 to 400 Hz):  Max. sensitivity: 90 V up to 2 m (6.56 ft)  Min. sensitivity: 600 V up to 1 cm (0.39 in) | -   | -  |









## **Specifications**

|                                  | AT-6000-RE Receiver  | AT-6000-TE Transmitter   | CT-400-EUR Signal Clamp   |
|----------------------------------|--|--|---|
| Display size                     | LCD 6.35 cm (2.5 in)   | LEDs   | -   |
| Display dimensions (W x H)       | 36.72 x 48.96 mm (1.45 x 1.93 in)  | -  | -   |
| Display resolution               | 240 x 320 pixels (RGB)   | _  | _   |
| Display type                     | TFT-LCD (262 K)  | LEDs   | -   |
| Display color                    | True, 16bit/color  | Operating mode LEDs: red<br>Battery status LEDs: green, yellow, red                                | -   |
| Booting time                     | < 3 sec  | < 2 sec  | -   |
| Backlight                        | •  | _  | _   |
| Operating temperature            | -20 °C to 50 °C (-4 °F to 122 °F)  |  | 0 °C to 50 °C (32 °F to 122 °F)   |
| Operating humidity               | 45%: -20 °C to <10 °C (-4 °F to <50 °F)<br>95%: 10 °C to <30 °C (50 °F to <86 °F)<br>75%: 30 °C to <40 °C (86 °F to <104 °F)<br>45%: 40 °C to 50 °C (104 °F to 122 °F) |  | 95%: 10 °C to <30 °C (50 °F to <86 °F)<br>75%: 30 °C to <40 °C (86 °F to <104 °F)<br>45%: 40 °C to <50 °C (104 °F to <122 °F) |
| Storage temperature and humidity | -20 °C to 70 °C (-4 °F to 158 °F), <95% RH   |  | 0 °C to 50 °C<br>(32 °F to 122 °F)  |
| Operating altitude               | 0 to 2000 m (0 to 6561 ft)   |  |   |
| Transient protection             | _  | 6.00 kV (1.2/50µS surge)   | -   |
| Pollution degree                 | 2  |  |   |
| IP rating                        | IP 52 IP 40  |  |   |
| Drop test                        | 1 m (3.28 ft)  |  |   |
| Power supply                     | 4 x AA (alkaline or NiMH rechargeable)   | 8 x AA (alkaline or NiMH rechargeable)   | _   |
| Power consumption (typical)      | 110mA  | Hi/Lo mode: 70 mA<br>Loop mode with Clamp: 90 mA Consumption<br>without signal transmission: 10 mA | -   |
| Battery life (typical)           | Approx. 16 h   | Hi/Lo mode: approx. 25 h<br>Loop mode: approx. 18 h  | -   |
| Low battery indication           | •  | •  | -   |
| Fuse                             | _  | 1.6 A, 700 V, fast-acting, Ø 6x32mm  | -   |
| Maximum conductor Size           | _  | _  | 1.26 in (32 mm)   |
| Dimensions (L x W x H)           | Approx. 183 x 75 x 43 mm<br>(7.2 x 2.95 x 1.69 in)   | Approx. 183 x 93 x 50 mm<br>(7.2 x 3.66 x 1.97 in)   | Approx. 150 x 70 x 30 mm<br>(5.9 x 2.75 x 1.18 in)  |
| Weight                           | Approx. 0.57 kg (1.25 lb)  | Approx. 2.8 kg (6.18 lb)   | Approx. 0.114 kg (0.25 lb)  |
| Certifications                   | . <b>©</b> :. <b>C €</b> .   |  | . <b>®</b> C €  |

**NOTE**: Refer to user manual for ADPTR-SCT and TL-6000 specifications.

### **Included in Wire Tracer Kits**

|   | AT-6020-EUR | AT-6030-EUR |
|---|-------------|-------------|
| AT-6000-RE Receiver                     | •           | •           |
| AT-6000-TE Transmitter                  | •           | •           |
| TL-7000-EUR Test Lead and Accessory Kit | •           | •           |
| ADPTR-SCT-EUR Socket-check adapter      | •           | •           |
| CT-400-EUR Signal Clamp                 | (Optional)  | •           |
| CC-6000 Hard Carrying Case              | •           | •           |
| User Manual                             | •           | •           |
| 12 - 1.5 V AA (IEC R6) Batteries        | •           | -           |
| 12 - Rechargeable Batteries             | _           | •           |
| 3 - Battery Chargers                    | -           | •           |

(charger and batteries are not available to order separately)



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AT-6030-EUR