



CReSSmicro[™]

CReSSmicro is a portable version of the widely used Clinical Research Support System (CReSS). This battery-operated device measures smoking behavior including puffs per cigarette, puff volume, and puff duration. CReSSmicro's most important feature is its portability. For the first time, researchers can acquire behavioral information in the smoker's natural setting over several weeks. Date and time tags, assigned at cigarette insertion and removal, further provide CReSSmicro with an abundance of information never before available.

Measures can be collected and stored in on-board memory for up to four weeks at a time. During this time researchers need not interact with the device. When loaded with the CReSShost application software, any Windows[®] computer can be used to retrieve data from the CReSSmicro. A built-in verification process that maintains privacy and reliability protects access to these data.

Designed for use by a wide variety of smokers, CReSSmicro can be easily set up to study difficult-to-reach groups such as adolescents or smokers in developing nations.

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This product information is provided to assist you in the evaluation of our products. Plowshare Technologies reserves the right to alter prices, specifications, features, capabilities, and functions without notice. Development of this product was supported, in part, by NIH grant 1R43DA13882.

Product Information

Features

- Battery-operated self-contained measurement device
- Collect naturalistic topography data for up to four weeks
- Time and date tag at cigarette insertion/removal
- User-controlled real-time artifact elimination
- Secure access to recorded data via device authentication
- Audible and visible feedback to participant
- Lightweight design – only 3.1 oz. with battery
- Extremely portable – only 2.5" x 2.2" x 1.2".

Applications

- Field studies of smoking behavior
- Studies with adolescent smokers
- Quantifying level of dependence
- Pharmacological trials
- Evaluating potential reduced exposure products

Measured Characteristics

| Characteristic | Range | Units |
|-----------------------|---------|-----------------------|
| Puff Volume | 0..150 | ml. |
| Puff Duration | 0..20 | sec. (recorded in ms) |
| Inter-Puff Interval | 0..1200 | sec. (recorded in ms) |
| Peak Flow during Puff | 0..150 | ml/sec. |
| Time of Peak Flow | 0..20 | sec. (recorded in ms) |
| Mean Flow during Puff | 0..150 | ml/sec. |
| Puffs per cigarette | 0..40 | puffs. |
| Time to First Puff | 0..1200 | sec. (recorded in ms) |
| Time to Removal | 0..1200 | sec. (recorded in ms) |

Ordering Information

| Description | Model |
|--|-------|
| Portable Device (includes battery & mouthpiece)* | 9900 |
| Application Software (for Windows [®] platform)** | 9000 |
| Replacement Battery | 9270 |
| Replacement Mouthpiece | 9290 |

*Portable device requires Model 9000 application software

**PC requires an open 9-pin serial port for device data cable