

## PRODUCT DETAILS

### 1. Product Overview

#### Product Description:

Microlit's E-Burette is state-of-the-art **motor operated** instrument designed to perform accurate titrations.

This fully automated, motorized Electronic Burette is one step ahead of the Digital Burettes that are available in the market. All the existing burettes consist of a manual dispensing wheel. The motor controlled piston movement of Microlit's E-Burette makes the existing manual-hand wheel-operation an obsolete technology.

#### Intended Users:

The E-Burette is intended for use in laboratories to perform titration to determine the concentration of a substance in a solution. Pharmacists can use it to achieve a desired mix of compound drugs. Doctors can also use it to determine the correct proportion of different medicines.

#### How it is used:

The E-Burette is designed in a user friendly manner. The interactive graphical user interface makes its operation simple and easy. A microprocessor based control panel with touch screen action is provided with the instrument. There are three pre-set dispensing speeds: fast, medium and drop-wise. The user can select any of the three speeds and can dispense the reagent/chemical simply by a touch on the screen. There is no issue of any manual wheel rotation (clockwise or anticlockwise).

#### In what settings it is used:

Microlit's E-Burette is used in scientific laboratories at room temperature at three different dispensing speed modes: fast, medium and drop wise. The user can select the dispensing speed depending upon how



close the user is with the end point of the titration experiment. The E-Burette is compatible with most of the reagents commonly used in laboratories.

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## 2. Innovation

Dispensing results are largely affected by the piston speed in all kind of piston operated volumetric dispensing devices (Ref: ISO 8655-6, Section 7.7.2). This is applicable to Digital Burette as well where piston is driven 'Manually' by the rotating wheel.

The digital or electronic burettes that are available in the market consist of a manual dispensing wheel. This wheel is rotated by the user to perform titrations. The speed of this wheel is not fixed and varies from one user to the other. These abrupt changes in speed due to the manual rotation of wheel can lead to inaccurate and imprecise results.

Microlit's E-Burette provides a solution to this. The automated and motorized E-Burette is an innovative design solution. The motor controlled piston movement is a totally new technology. It rules out the use of manual-hand wheel-operation and the inconsistencies arising due to the variations in user speed.

The touch screen control panel allows three pre-set speeds: fast, medium and drop-wise and the instrument is calibrated at all the three speeds. This eliminates human error and makes the instrument 'Real Automated Motorized Burette'.

