



# Operating Instructions DDAPT-PLUS Digital Depth Gauge Plus

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P/N DDAPT-PLUS  
Revision 1.0  
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## Revision History

Rev.	Description	Revised By	Revised On	Approved By	Approved On
A	INITIAL RELEASE	J. Mentuck	03/08/2018		

## 1.0 General Information

### 1.1 Introduction

Congratulations, and thank you for purchasing Quality Lab Accessories, DDAPT-PLUS Digital Depth Gauge Plus. The DDAPT-PLUS is used to verify the height from the bottom of the paddle blade or basket, to the inside bottom of the vessel as described in the United States Pharmacopeia. The DDAPT-PLUS has been precisely engineered to make your calibration process as simple and precise as possible.

### 1.2 Product Specifications

Parameter	Specification
Model #	DDAPT-PLUS
Accuracy	+/- .001" ( .025mm )
Calibration	1 Year

## 2.0 Operating Instructions

### 2.1 Unpacking

When you open the protective case supplied with your DDAPT-PLUS you will notice two components, a DDAPT-UN and a DEPSET-25A (labeled as such). You will utilize both components during the calibration process.

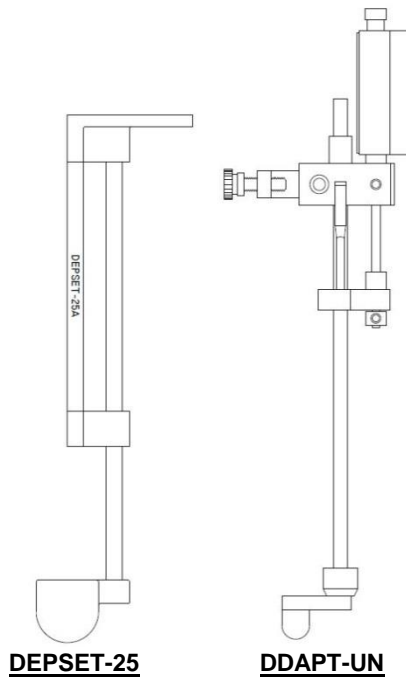


Figure A

## 2.2 Setup

1. As described by your dissolution machine manufacturer or by using the DEPSET-25A depth set tool, preset your dissolution paddles or basket shafts.
2. Attach the DDAPT-UN to the paddle or basket shaft, and lift the tool up until the top of the DDAPT-UN stem is touching the bottom of the paddle or basket shaft.
3. Lock the DDAPT-UN into place by tightening the nylon thumb screw.

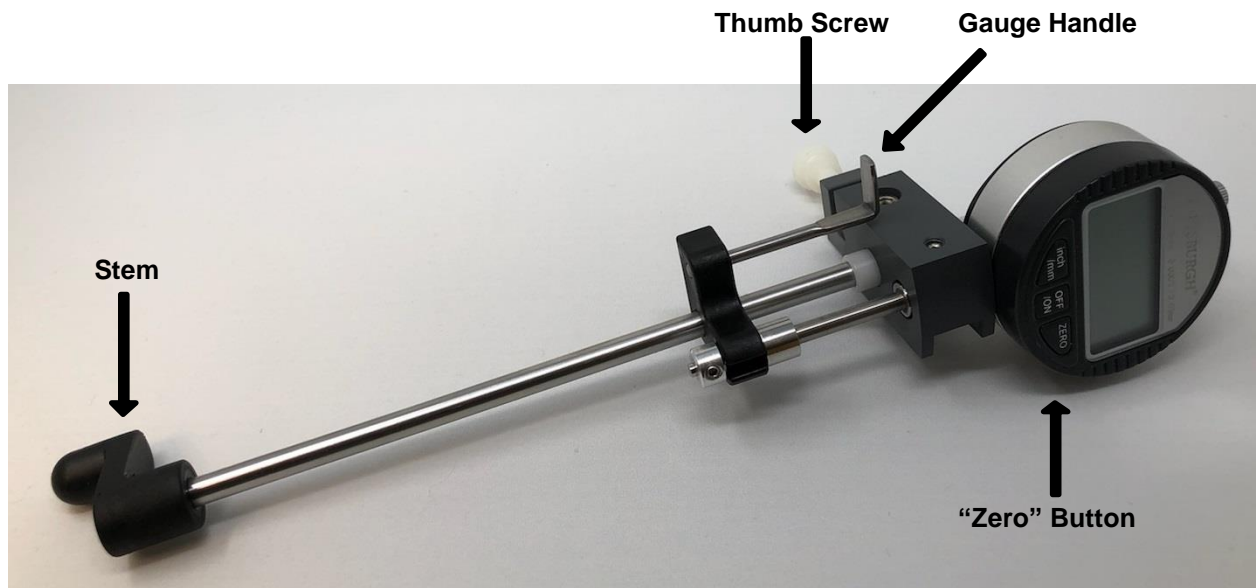


Figure B

## 2.3 Operation

Now that your machine and DDAPT-UN have been setup correctly, we can move onto proper operation of your new DDAPT-PLUS. It is important to note all vessels should be in position and centered before taking any height measurements using the DDAPT-PLUS.

1. Lower the paddle or basket shaft with attached DDAPT-UN into operating position.
2. With the DDAPT-UN lowered into the vessel, and the drive head locked from movement, "Zero Out" the digital gauge by pushing "Zero".
3. Loosen the thumb screw and lower the DDAPT-UN until the digital gauge reads 10mm +/- 1.0mm.
4. You have now created enough preload on the digital gauge, to utilize the DDAPT-PLUS properly. This pre-load is necessary to allow for a range of measurements to be made.



5. “Zero Out” the gauge again by pushing “Zero”
6. Lift the gauge handle, and note the gauge reading as the tool bottoms out on the underside of the paddle or basket.
7. Add this reading to the DDAPT-PLUS stem height, as provided on your certificate of calibration that came with the tool.

$$\begin{array}{r} \text{Example:} \quad 20\text{mm} \quad \text{stem height} \\ \quad \quad \quad + \underline{5\text{mm}} \quad \text{digital reading} \\ \quad \quad \quad = 25\text{mm} \quad \text{total clearance} \end{array}$$

8. Repeat setup and operation for all paddle or basket shaft positions.
9. Log the readings from each position in your log book.

### 3.0 Customer Service

#### 3.1 Technical Service

For help setting up your DDAPT-PLUS, please contact Quality Lab Accessories Lab Services Department for an appointment at (908) 685-7500. One of our Lab Services technicians would be glad to assist you in ensuring your satisfaction.

#### 3.2 Calibration

Calibration certification is generally covered for 1 year from the date of calibration. Quality Lab Accessories performs initial calibrations and recalibrations of this, and many other dissolution accessories. Please contact Quality Lab Accessories Lab Services Department to schedule your recalibration service.

#### 3.3 Maintenance

The DDAPT-PLUS is maintenance free and does not require daily service.

### 4.0 Warranty Information

The DDAPT-PLUS is warranted to be free from defects in materials and workmanship under normal use and service for a period of (1) year from the date of purchase as shown on the purchase order receipt. The obligation of QLA under this warranty shall be limited to repair or replacement (at our discretion) during the warranty period, provided the product is returned to QLA with transportation charges prepaid. This warranty shall be invalid if the product is damaged as a result of defacement, misuse, accident, destruction or alteration of the serial numbers, repair alteration or maintenance by any person or party other than our own service facility or authorized QLA service technician.



# NOTES