

# UM-SJTU PHYSICS LABORATORY VP241

## DATA SHEET (EXERCISE 2)

Name: \_\_\_\_\_

Student ID: \_\_\_\_\_

Name: \_\_\_\_\_

Student ID: \_\_\_\_\_

Group: \_\_\_\_\_

Date: \_\_\_\_\_

---

**NOTICE.** Please remember to show the data sheet to your instructor before leaving the laboratory. The data sheet will not be accepted if the data are recorded with a pencil or modified with a correction fluid/tape. If a mistake is made in recording a datum item, cancel the wrong value by drawing a fine line through it, record the correct value legibly, and ask your instructor to confirm the correction. Please remember to take a record of the precision of the instruments used. You are required to hand in the original data with your lab report, so please keep the data sheet properly.

---

$U_S$ [ ] $\pm$ [ ]	$U_0(I_M = 0)$ [ ] $\pm$ [ ]	$U(I_M = 250 \text{ mA})$ [ ] $\pm$ [ ]

Table 1. Data for  $U_0$  and  $U$  with  $U_S = 5 \text{ V}$ .

	$U_S$ [ ] $\pm$ [ ]	$U_0$ [ ] $\pm$ [ ]	$U$ [ ] $\pm$ [ ]
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			

Table 2. Data for  $U_0$  and  $U$  with different  $U_S$ .

Instructor's signature: \_\_\_\_\_

	$I_M$ [ ] $\pm$ [ ]	$U$ [ ] $\pm$ [ ]
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		

Table 3. Measurement data for the  $I_M$  vs.  $U$  relation.

Instructor's signature: \_\_\_\_\_

	$x$ [ ] $\pm$ [ ]	$U$ [ ] $\pm$ [ ]		$x$ [ ] $\pm$ [ ]	$U$ [ ] $\pm$ [ ]
1			25		
2			26		
3			27		
4			28		
5			29		
6			30		
7			31		
8			32		
9			33		
10			34		
11			35		
12			36		
13			37		
14			38		
15			39		
16			40		
17			41		
18			42		
19			43		
20			44		
21			45		
22			46		
23			47		
24					

Table 4. Data for the  $U$  vs.  $x$  relation.

Instructor's signature: \_\_\_\_\_