

**Mikro’s MU 2300 Voltage Relay :**  
**Disabling the Under voltage protection**

29<sup>th</sup> January 2013

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**MU2300 Configuration**

1. In Mikro’s MU2300 voltage relay, there are two stages of under voltage settings available for the user to configure which are U<< high set under voltage and U< low set under voltage setting.
2. To disable MU2300 U<< high set under voltage protection, user will need to configure the soft switch key no. 8. Refer to table below (set to even for both groups).

	S8.7	S8.6	S8.5	S8.4	S8.3	S8.2	S8.1	S8.0
Default setting	1	1	1	1	1	1	1	1
Default setting – hexadecimal value	F (Group B)				F (Group A)			
User’s setting								
User’s setting – hexadecimal value								

**S8.0**

For enabling Group A high-set undervoltage element.

 1 = Enabled  
 0 = Disabled

**S8.1**

For enabling Group A high-set overvoltage element.

1 = Enabled  
 0 = Disabled

**S8.2**

For enabling Group A low-set residual overvoltage

1 = Enabled  
 0 = Disabled

**S8.3**

For enabling Group A low-set negative sequence overvoltage

1 = Enabled  
 0 = Disabled

3. There is no direct way to disable the U< low set under voltage. To disable it, user would need to configure the digital input as blocking input and configure it to block U< under voltage protection.
4. To configure digital input to block, user would need to set the soft switch 9A. Set 9A.3 is set to 1. See table below.

	S9A.7	S9A.6	S9A.5	S9A.4	S9A.3	S9A.2	S9A.1	S9A.0
Default setting	0	0	0	0	1	0	0	0
Default setting – hexadecimal value	0				8			
User's setting								
User's setting – hexadecimal value								

#### S9A.0

The input is configured for switching between Group A setting and Group B setting.

- 1 = Selected.
- 0 = Not selected.

#### S9A.1

The input is configured as remote trip reset input.

- 1 = Selected.
- 0 = Not selected.


#### S9A.2

The input is configured as external tripping input source.

- 1 = Selected.
- 0 = Not selected.

#### S9A.3

The input is configured as blocking input.

-  1 = Selected.
- 0 = Not selected.

5. Then, user would need to configure soft switch 9B to determine which protection to block. In this case, user would need to enable S9B.0 and S9B.1 to block both high and low set under voltage protection.

	S9B.7	S9B.6	S9B.5	S9B.4	S9B.3	S9B.2	S9B.1	S9B.0
Default setting	0	0	0	0	0	0	0	0
Default setting – hexadecimal value	0				0			
User's setting								
User's setting – hexadecimal value								

### S9B.0

Low-set undervoltage blocked.

→ 1 = Block  
0 = Unblock

### S9B.1

High-set undervoltage blocked.

→ 1 = Block  
0 = Unblock

### S9B.2

Low-set overvoltage blocked.

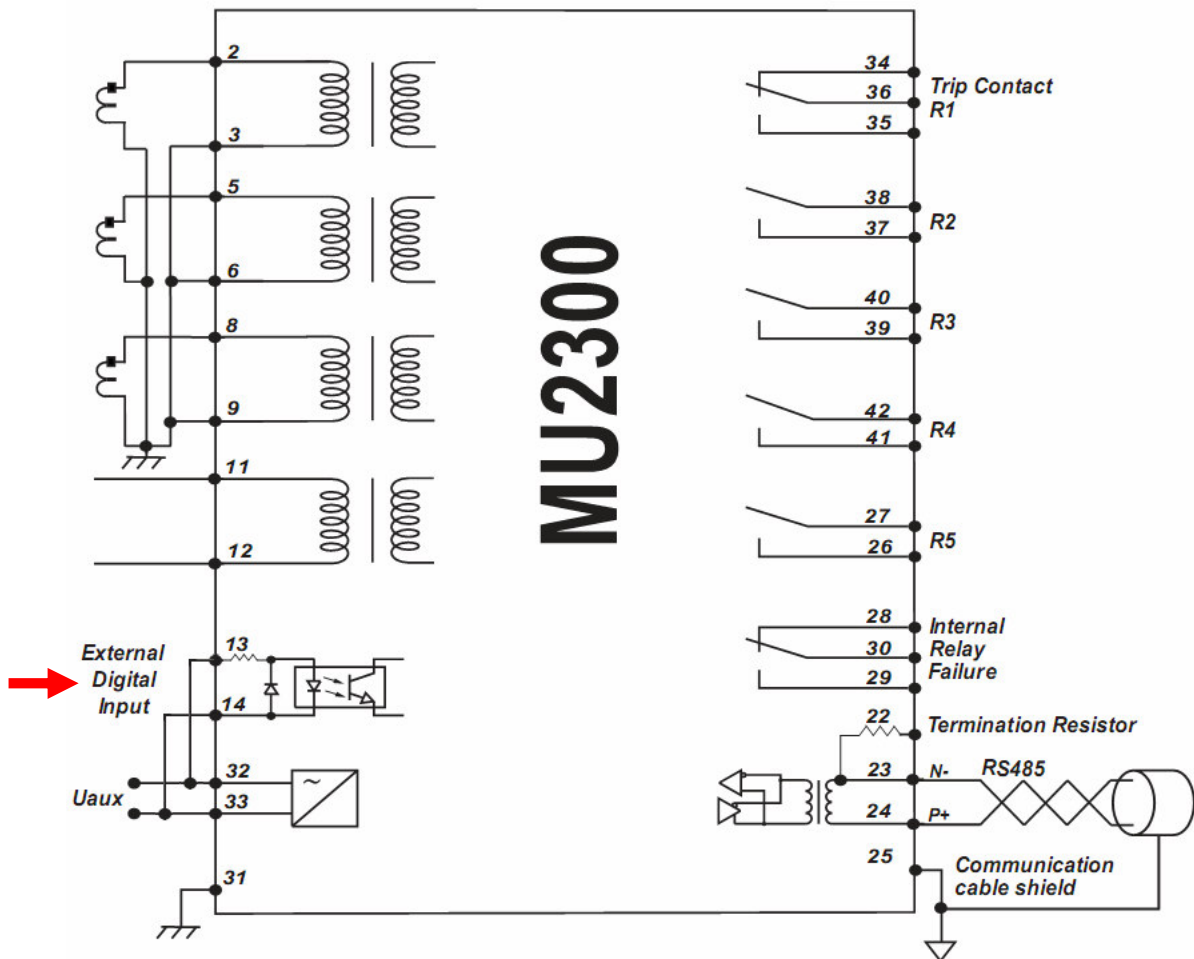
1 = Block  
0 = Unblock

### S9B.3

High-set overvoltage blocked.

1 = Block  
0 = Unblock

6. The user will then need to connect the digital input according the wiring below. Observe that the external digital input is always triggered.



**Figure 1: MU2300 Wiring Diagram for Disabling Under Voltage Protection**

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