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**1. Jurnal** [\[kembali\]](#home)

**2. Alat dan Bahan** [\[kembali\]](#home)

**2.1 Alat** [\[kembali\]](#home)

**a.. Jumper**



src="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEgEqrNV8QAjsUi2j2JDtBOQgpjZO8p\_77hBKQTLyY4crnkVopaFP7VKoipxuGb2oxnap59IPXzsC9SiadWKYf8MnwjkZ0SWFeBfCY57UC3pNM8EHWYf9gy1XhFpMmDVPniDNHOW7WQ1bAV2MAanibalnr8vCxxVwNWle1MMA4CL\_Ld\_O7tRoQ1Ku-9i/w360-h275/image\_2022-03-23\_125247.png" style="border: none; box-sizing: border-box; margin: 0px; max-width: 100%; padding: 0px; position: relative; width="360" /></a></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;">Gambar 1. Jumper</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;">b.Panel DL 2203D&nbsp;</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;">c.Panel DL 2203C&nbsp;</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;">d.Panel DL 2203S</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEj1gmQWHYkOosUSexFIVJ8xd80acdzzeYj\_Nnyw3tfVSpVXaHMxdEw7vDhNrztvuAExFaQraUkxGZyE1Mm2HGHNdnb3TVok56MEgqSKDGysF\_a-64qm5kBKTrfDNfgh2lsQZCda6DZUX-EibRXLy3RN93dzqIMRLMXAv6ON7mD1pyYNXhkrF5MeFfm-/s500/image\_2022-03-23\_125351.png" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px 1em; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"></a></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;">Gambar 2. Modul De Lorenzo</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"><br style="box-sizing: border-box;" /></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"><br style="box-sizing: border-box;" /></div><div

**Bahan**

2.2 Bahan (proteus)

[kembali]

a. IC 74LS112 (J-K Flip-Flop)

b. CD4013B (D Flip-Flop)

href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEhJa5N3yxooib0CQI1oUH4lhYGoMdRqPBEoRHqnkl\_3mWo\_2z3nTqROV43CYDTxRAxEQfny7TL4ODLxRiTszJHikLmMB-sjTaPD5Tt2VPA70Cf1Ini3GUTz09wMCXbE8SzAjyhuV00Y5Cc4qjWK452R5qYIH3ESNrt-SV0DJQvCxAKHJGEX5841FO/s306/image\_2022-03-27\_013259.png" style="border: 0px; box-sizing: border-box; color: #597e00; margin: 0px 1em; padding: 0px; text-decoration-line: none; transition: all 0.3s ease 0s;"></a></div><br style="box-sizing: border-box;" /><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px; text-align: center;"><br style="box-sizing: border-box;" /></div></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;"><div style="text-align: center;"><span face="&quot;open sans&quot;, arial, helvetica, sans-serif" style="color: #444444; font-size: 15px;">Gambar 4. D Flip-Flop</span></div><span lang="EN-US" style="border: 0px; box-sizing: border-box; color: #444444; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt; line-height: 17.12px; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></span></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;"><span lang="EN-US" style="border: 0px; box-sizing: border-box; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt; line-height: 17.12px; margin: 0px; padding: 0px;"><br style="box-sizing: border-box; border-box;" /></span></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;"><span lang="EN-US" style="border: 0px; box-sizing: border-box; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt; line-height: 17.12px; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></span></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;"><span lang="EN-US" style="border: 0px; box-sizing: border-box; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt; line-height: 17.12px; margin: 0px; padding: 0px;">c. Power DC</span></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; font-size: 15px; margin: 0px; padding: 0px;"><span lang="EN-US" style="border: 0px; box-sizing: border-box; font-family: &quot;Times New Roman&quot;, serif; font-size: 12pt; line-height: 17.12px; margin: 0px; padding: 0px;"><br style="box-sizing: border-box;" /></span></div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; color: #444444; font-family: &quot;open sans&quot;, arial, helvetica, sans-serif; margin: 0px; padding: 0px;"><div class="separator" style="border: 0px; box-sizing: border-box; clear: both; font-size: 15px; margin: 0px; padding: 0px; text-align: center;"><a href="https://blogger.googleusercontent.com/img/b/R29vZ2xl/AVvXsEiifCpql-hK4HMFsTtWx-k6

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0s;">[kembali]</a></b></span></div><div class="separator" style="border: 0px; box-sizing:  
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0px; box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">Prinsip  
Rangkaian:</div><div class="separator" style="border: 0px; box-sizing: border-box; clear: both;  
margin: 0px; padding: 0px;">Flip-Flop</div><div class="separator" style="border: 0px;  
box-sizing: border-box; clear: both; margin: 0px; padding: 0px;">Flip-flop adalah rangkaian  
elektronika yang memiliki dua kondisi stabil dan dapat digunakan untuk menyimpan informasi.

Flip-flop merupakan pengaplikasian gerbang logika yang bersifat Multivibrator Bistabil.

Dikatakan Multivibrator Bistabil karena kedua tingkat tegangan keluaran pada Multivibrator tersebut adalah stabil dan hanya akan mengubah situasi tingkat tegangan keluarannya saat dipicu (trigger).

Flip-flop mempunyai dua Output (Keluaran) yang salah satu outputnya merupakan komplemen Output yang lain.

**J-K Flip-Flop**

Kelebihan J-K Flip-flop adalah tidak adanya kondisi terlarang atau yang berarti diberi berapapun inputan asalkan terdapat clock maka akan terjadi perubahan pada keluaran atau outputnya.

**D Flip-Flop**

D Flip-flop merupakan salah satu jenis flip-flop yang dibangun dengan menggunakan flip-flop R-S. Perbedaan dengan R-S flip-flop terletak pada inputan R, dan D Flip-flop inputan R terlebih dahulu diberi gerbang NOT.

**4. Video**

[kembali]

**5. Analisa**

1. Bagaimana jika B0 dan B1 diberi logika 0, apa yang terjadi?

Apabila B0 dan B1 diberi logika nol semua output pada JK flip-flop dan D flip-flop akan berlogika satu.

2. Bagaimana jika B3 tidak dihubungkan pada rangkaian?

[illegible]

[https://drive.google.com/file/d/18UserlCtyjx7M8I\\_Pnl6GnFYKxR3nZe4/view?usp=sharing](https://drive.google.com/file/d/18UserlCtyjx7M8I_Pnl6GnFYKxR3nZe4/view?usp=sharing)  
>Download</a></div><div style="border: 0px; box-sizing: border-box; font-size: 15px; margin: 0px; padding: 0px;">File Datasheet D Flip-Flop <a href="https://drive.google.com/file/d/1vz-URIfOwN79kOa9V33V4zN6Vk4Bb-e4/view?usp=sharing">Download&nbsp;</a></div><div style="border: 0px; box-sizing: border-box; font-size: 15px; margin: 0px; padding: 0px;">File HTML Download</div><div style="border: 0px; box-sizing: border-box; font-size: 15px; margin: 0px; padding: 0px;"><br /></div><div style="border: 0px; box-sizing: border-box; margin: 0px; padding: 0px; text-align: center;"><a href="#awal" name="akhir"><span style="font-size: x-small;">[menuju awal]</span></a></div></div></div></span></div>