

Siemens S7-1200

CPU 1212C AC/DC/Relay

Comparators Operations

The Compare instructions perform a **comparison of two values** with the **same data type**.

- **Equal (==)**
- **Not Equal (<>)**
- **Greater or Equal (>=)**
- **Less or Equal (<=)**
- **Greater than (>)**
- **Less than (<)**
- **IN_Range** – Value within Range
- **OUT_Range** – Value outside Range



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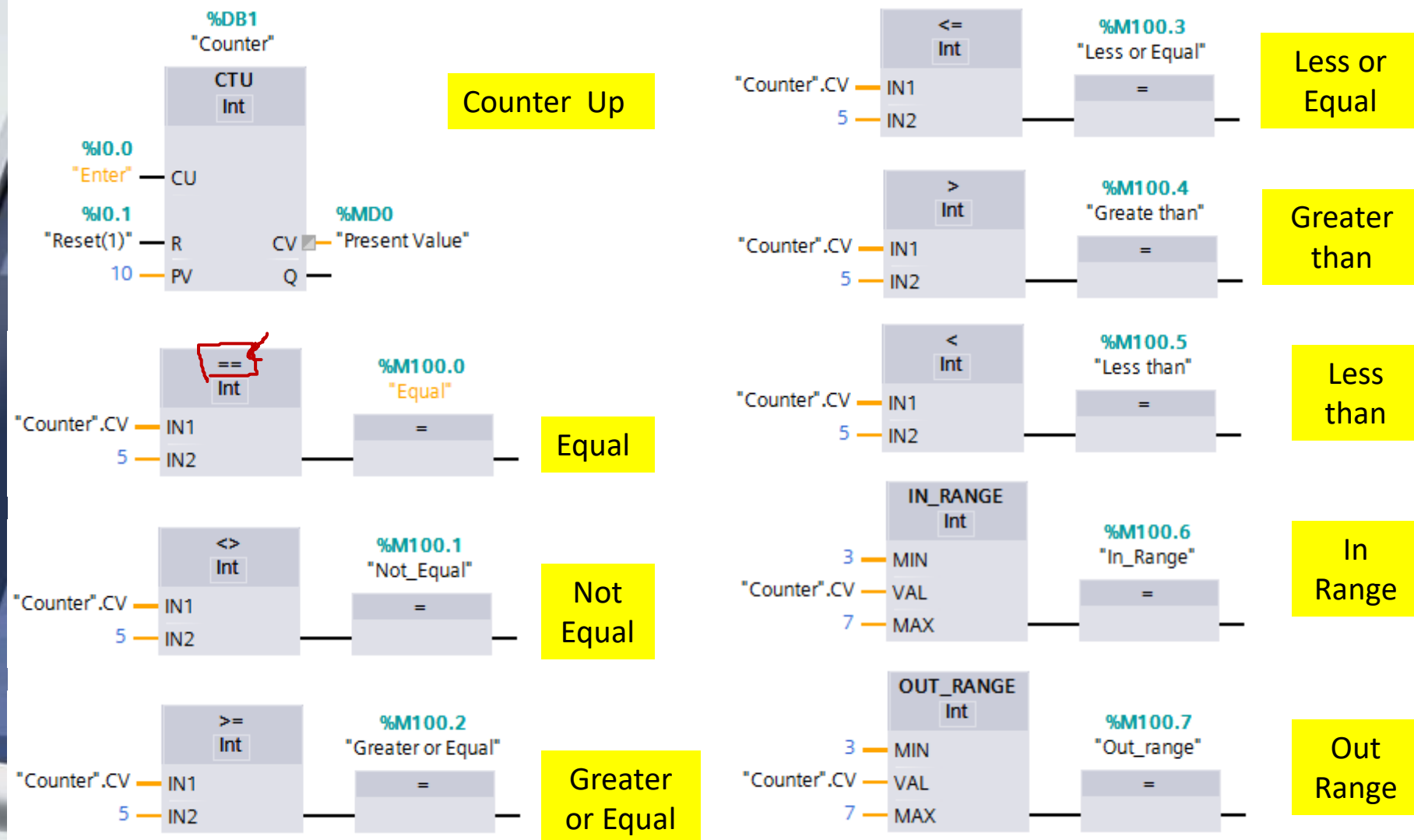
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Working Example in FBD- Comparator Operators </>

Take an example of Counter with PV 10 and utilize all the comparison operators

FBD Solution



What did we learn in this lesson?

Typical Comparison operators used:

- **Equals (==):** The comparison is true if IN1 is equal to IN2
- **Not equal (<>):** The comparison is true if IN1 is not equal to IN2
- **Greater than or equal to (>=):** The comparison is true if IN1 is greater than or equal to IN2
- **Less than or equal to (<=):** The comparison is true if IN1 is less than or equal to IN2
- **Greater than (>):** The comparison is true if IN1 is greater than IN2
- **Less than (<):** The comparison is true if IN1 is less than IN2

Thank you

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