

# ZCP Instruction



**WECON Technology Co., Ltd.**

Website: <http://www.we-con.com.cn/en>

Technical Support: [liux@we-con.com.cn](mailto:liux@we-con.com.cn)

Skype: "fcwkkj" or "Jason.chen842"

Phone: 86-591-87868869

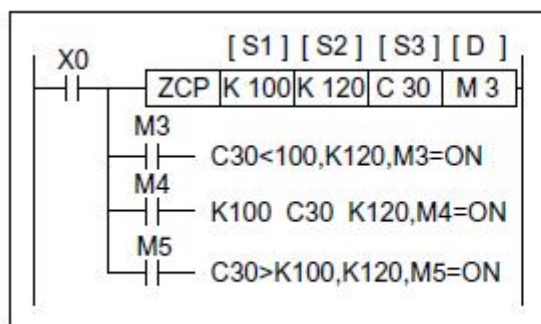
Technical forum: <http://wecon.freeforums.net/>

# ZCP instruction

## I Instruction description:

Mnemonic	Function	Operands				Program steps
		S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	D	
ZCP (Zone compare)	Compares a data value against a data range - results of <, = and > are given.	K, H, KnX, KnY, KnM, KnS, T, C, D, V, Z  Note: S <sub>1</sub> should be less than S <sub>2</sub>			Y, M, S Note:  3 consecutive devices are used.	ZCP, ZCPP: 9 steps  DZCP, DZCPP: 17 steps

## II Operation



### Operation:

The operation is the same as the CMP instruction except a single data value (S<sub>3</sub>) is compared against a data range (S<sub>1</sub>-S<sub>2</sub>).

S<sub>3</sub> is less than S<sub>1</sub> and S<sub>2</sub> - bit device D is ON

S<sub>3</sub> is equal to or between S<sub>1</sub> and S<sub>2</sub> - bit device D+1 is ON

S<sub>3</sub> is greater than both S<sub>1</sub> and S<sub>2</sub> - bit device D+2 is ON

**Note:** The destination (D) device statuses will be kept even if the ZCP instruction is deactivated.

## III Program

