

FUN98 RAMP2	TRACKING TYPE RAMP FUNCTION FOR D/A OUTPUT	FUN98 RAMP2																																															
<div><div><div>Execution EN</div><div><div>98.RAMP2</div><div><div>Om :</div><div>Ta :</div><div>Td :</div><div>Rt :</div><div>Rc :</div><div>WR :</div></div></div><div><div>ACC</div><div>DEC</div></div></div><div><div>Om : Maximum output; range from 0~65535</div><div>Ta : The acceleration time for the output from 0 up to maximum; Range from 0~65000, unit is in mS</div><div>Td : The deceleration time for the output from maximum down to 0; Range from 0~65000, unit is in mS</div><div>Rt : Register of target output; Range from 0~65535</div><div>Rc : Register of current output, it is used for analog output</div><div>WR : Starting address of working registers, it needs 4 registers</div><div>* This instruction can be supported in PLC OS firmware V4.60 or late</div></div></div>																																																	
<table><tr><th rowspan="2">Range Operand</th><th>HR</th><th>OR</th><th>ROR</th><th>DR</th><th>K</th></tr><tr><th>R0 R3839</th><th>R3904 R3967</th><th>R5000 R8071</th><th>D0 D3999</th><th>16bit</th></tr><tr><td>Om</td><td>○</td><td>○</td><td>○</td><td>○</td><td>0~65535</td></tr><tr><td>Ta</td><td>○</td><td>○</td><td>○</td><td>○</td><td>0~65000</td></tr><tr><td>Td</td><td>○</td><td>○</td><td>○</td><td>○</td><td>0~65000</td></tr><tr><td>Rt</td><td>○</td><td>○</td><td>○</td><td>○</td><td></td></tr><tr><td>Rc</td><td>○</td><td>○</td><td>○</td><td>○</td><td></td></tr><tr><td>WR</td><td>○</td><td>○</td><td>○*</td><td>○</td><td></td></tr></table> <div><div>● When execution “EN” =0, current output value (Rc) will be 0 immediately; the output indicators ACC=0 and DEC=0.</div><div>● When execution “EN” =1, this instruction being executed; it will output current value (Rc) first, and then compare the target output value (Rt) with current output value (Rc) every scan; if the target output value is greater than current output value, the current output will be increased according to the rate, which is decided by the settings of acceleration time (Ta) and maximum output (Om), till current output value is equal to the target output value (ACC=1 during this time); if the target output value is less than current output value, the current output will be decreased according to the rate, which is decided by the settings of deceleration time (Td) and maximum output (Om), till current output value is equal to the target output value (DEC=1 during this time).</div><div>● If the setting value of target output (Rt) is greater than maximum output(Om), the output value will be clamped by the maximum value.</div><div>● It can have smooth activity for acceleration and deceleration control via the execution of this instruction by using current output value (Rc) for analog output (R39044~R3967).</div><div>● The setting value of target output (Rt) needs to stay two scan times at least for proper operation.</div><div>● It needs 4 registers for working, they can not be repeated in use。</div><div>● This instruction is for positive value operation, but it also can have negative output by short and easy application program for help. Please see example 2.</div></div>			Range Operand	HR	OR	ROR	DR	K	R0 R3839	R3904 R3967	R5000 R8071	D0 D3999	16bit	Om	○	○	○	○	0~65535	Ta	○	○	○	○	0~65000	Td	○	○	○	○	0~65000	Rt	○	○	○	○		Rc	○	○	○	○		WR	○	○	○*	○	
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