CPU -002	Binary Pulse Timer: _CPU002_TP_BIN

Basic function	Turns ON the output for a specified time after the input turns ON.
Symbol	Always ON (P_On) — _CPU002_TP_BIN — (BOOL) EN — (BOOL) IN (Input) — (UINT) PT (ON time (unit: 100 ms)) — (BOOL) ENO — (UINT) ET — Elapsed time (unit: 100 ms) (May be omitted.)
File name	Lib\FLB\omronlib\PLC\CPU_CPU002_TP_BIN10.cxf
Applicable models	CPU Unit — CS1*-CPU**H Unit version 3.0 or higher CJ1*-CPU**H Unit version 3.0 or higher CJ1M-CPU** Unit version 3.0 or higher CP1H CP1L
	CX-Programmer — Version 5.0 or higher
Conditions for usage	PLC Properties • The PV update method for timers and counters must be set to binary in the PLC Setup. A compiling error will occur if BCD mode is set. The mode can be set in the PLC Properties in the CX-Programmer. Shared Resources • Timers
Function description	ENO is turned ON for the time specified in *ON time* when the *Input* turns ON. The *Elapsed time* will be incremented until the *ON time* is reached.
EN input condition	Connect the EN input to the Always ON Flag (P_On).
Restrictions	None
Application example	Always ON (P_On) — _CPU002_TP_BIN — (BOOL) EN — (BOOL) IN (Input / Bit A) — (UINT) PT (ON time (unit: 100 ms) / &10) — (BOOL) ENO — Bit B — (UINT) ET — Elapsed time (unit: 100 ms)

Related FBs	Use the correct FB for the timer/counter PV update mode set in the PLC Setup.
	Binary mode:
	Binary Pulse Timer (_CPU002_TP_BIN)
	BCD mode:
	BCD Pulse Timer (_CPU001_TP_BCD)

■ **Variable Tables**

Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): FB started. 0 (OFF): FB not started.
Input	IN	BOOL			Turn ON to start timing.
ON time	PT	UINT		&0 to &65535	Specify the ON pulse time (unit: 100 ms). For example, &30 means 3 seconds.

Output Variables

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		Turns ON for a specified time after the input turns ON.
Elapsed time (May be omitted.)	ET	UINT		Outputs the time that *Input* was ON until the *ON time* is reached (unit: 100 ms).

Version History

Version	Date	Contents
1.00	2004.6.	Original production

Note

This manual is a reference that explains the function block functions.

It does not explain the operational limitations of Units, components, or combinations of Units and components. Always read and understand the Operation Manuals for the system's Units and other components before using them.