

Customizable Counter Unit Fatal Errors

Error	Unit indicators				Error message	Error log (SIOU code, details 1, details 2)	SR 23500 to SR 23507	Error flags	Meaning and corrective measures
	RUN	OPN	ERC	ERH					
Power interrupted	OFF	OFF	OFF	OFF	---	---	---	---	Power has been interrupted for at least 10 ms. Check power supply voltage and power lines. Try to power-up again.
Unit WDT error	OFF	OFF	OFF	OFF	---	---	---	---	A WDT timer error has occurred. Change to PROGRAM mode and try to power-up again.
Unit RAM error	OFF	OFF	Lit	OFF	---	---	---	---	An error was detected when checking RAM for shared memory with CPU Unit at power-up. Try to power-up again.
Memory error	Lit	OFF	Lit	OFF	MEMORY ERR	0360 Hex 00 Hex F1 Hex	F1 Hex	SR 24906	The object program area overflowed when the user program was compiled. Reduce the size of the program or try Normal Execution Mode if High-speed Execution Mode was used initially.
								SR 24907	Illegal instructions were found in the program. Make sure that all instructions in the program are supported by the Unit and retransfer the program.
								SR 24908	Out-of-range operands were found in the program. Make sure that all addresses used in the program are supported by the Unit and retransfer the program.
								SR 24909	A flash memory error occurred in the Unit. Change to PROGRAM mode, try to power-up and transfer the program again. For the CS1W-HCA22, check AR 1712 to AR 1715 and perform the following: If there is an error in the user adjustments, clear the error and readjust the settings. If the default adjustments are being used, replace the Unit.
								SR 24910	A checksum error occurred in read-only words in DM Area. Reset the read-only words in DM Area.
								SR 24911	A checksum error occurred in Unit Setup Area. Reset the Unit Setup Area.
								SR 24912	A checksum error occurred in the user program or an instruction has been used incorrectly. Retransfer the program.
								SR 24913	A checksum error has occurred in an expansion instruction's data. Set all of the expansion instruction settings again and retransfer the program.
	Lit	---	---	OFF	---	---	---	---	SR 24914

Error	Unit indicators				Error message	Error log (SIOU code, details 1, details 2)	SR 23500 to SR 23507	Error flags	Meaning and corrective measures
	RUN	OPN	ERC	ERH					
No END	Lit	OFF	Lit	OFF	NO END INST	0360 Hex 00 Hex F0 Hex	F0 Hex	SR 23511	END(01) is not written anywhere in program. Write END(01) at the final address of the program.
Unit system error (FALS)	Lit	OFF	Lit	OFF	SYS FAIL FALS**	0360 Hex 00 Hex FALS No. (1 to 99 BCD)	FALS No. (1 to 99 BCD)	SR 23511	An FALS(07) instruction has been executed in the program. Check the FALS number to determine the conditions that would cause execution, correct the cause, and clear the error.
Unit cycle time monitor error	Lit	OFF	Lit	OFF	SYS FAIL FALS9F	0360 Hex 00 Hex F9 Hex	F9 Hex	SR 23511	The cycle time has exceeded the FALS 9F Cycle Time Monitoring Time (DM 6618). Check the cycle time and adjust the Cycle Time Monitoring Time if necessary.

CPU Errors Resulting in Customizable Counter Unit Fatal Errors

Error	Unit indicators				Error message	Error log (SIOU code, details 1, details 2)	SR 23500 to SR 23507	Error flags	Meaning and corrective measures
	RUN	OPN	ERC	ERH					
Unit recognition error	OFF	OFF	Lit	Lit	---	---	---	---	The Customizable Counter Unit is not recognized as a Special I/O Unit by the CPU Unit. Try to power-up again.
Unit not recognized	OFF	OFF	OFF	Lit	---	0006 Hex 08 Hex 00 Hex	---	---	The actual I/O tables do not agree with the registered I/O tables. Recreate the I/O tables in the CPU Unit.
Unit number error	OFF	OFF	OFF	Lit	---	---	---	---	The unit number is not set correctly or the same number has been set for another Unit. Correct the unit numbers and try to power-up again.
Unit setting read error	OFF	OFF	OFF	Lit	---	---	---	---	No response to a FINS command or CPU settings could not be read. Try to power-up again.
Bus error	OFF	OFF	OFF	Lit	---	---	---	---	The access right could not be obtained. Try to power-up again.

9-3-2 Non-fatal Errors

Although Unit operation will not stop, any errors that occur should be investigated and removed immediately. After correcting an error, restart the PC or clear the error from a Programming Device.

Customizable Counter Unit Non-fatal Errors

Error	Unit indicators				Error message	Error log (SIOU code, details 1, details 2)	SR 23500 to SR 23507	Error flags	Meaning and corrective measures
	RUN	OPN	ERC	ERH					
Unit system error (FAL)	Lit	Lit	Flash	OFF	SYS FAIL FAL**	0360 Hex 00 Hex FAL No. (1 to 99 BCD)	FAL No. (1 to 99 BCD)	SR 23510	An FAL(06) instruction has been executed in the program. Check the FAL number to determine conditions that would cause execution, correct the cause, and clear the error.
Unit setting error	Lit	Lit	Flash	OFF	SYS FAIL FAL9B	0360 Hex 00 Hex 9B Hex	9B Hex	SR 24900 to SR 24902	There is an error in the settings for the Unit. Check the functions being used are redo the settings.
	Lit	Lit	Flash	Lit				SR 24903	There is an error in m to m+9 allocated in the DM Area in the CPU Unit. Check the settings and correct any mistakes.
Unit CYCLE TIME OVER	Lit	Lit	Flash	OFF	SCAN TIME OVER	0360 Hex 00 Hex F8 Hex	F8 Hex	SR 23509	The cycle time of the Unit exceeded 10 ms. Either alter the program to reduce the cycle time or set DM 6655 bits 08 to 11 so that this error is not detected.
Communications error	Lit	---	---	OFF	---	---	---	SR 23512	A communications error occurred for the peripheral port. Check the cables. Also, check the communications settings for the peripheral port in DM 6650 to DM 6654 and correct any mistakes.

CPU Errors Resulting in Customizable Counter Unit Non-fatal Errors

Error	Unit indicators				Error message	Error log (SIOU code, details 1, details 2)	SR 23500 to SR 23507	Error flags	Meaning and corrective measures
	RUN	OPN	ERC	ERH					
Fatal CPU Unit error	Lit	See note.	Flash	Lit	---	0006 Hex 00 Hex 00 Hex	0A Hex	SR 24915	A fatal error occurred in the CPU Unit. Correct the error in the CPU Unit.
CPU Unit WDT error	Lit	See note.	Flash	Lit	---	0001 Hex 00 Hex 00 Hex	0B Hex	SR 24915	A WDT error occurred in the CPU Unit. Correct the error in the CPU Unit.
CPU Unit monitor error	Lit	See note.	Flash	Lit	---	0002 Hex Cyclic service monitor time (ms)	0C Hex	SR 24915	An error occurred in cyclic servicing with the CPU Unit (the access right could not be obtained during the cyclic service monitor time). The error will be cleared when cyclic servicing with the CPU Unit is restarted. Check the CPU Unit and correct any errors.
Bus error	Lit	See note.	Flash	Lit	---	000E Hex 00 Hex 00 Hex	0D Hex	SR 24915	A bus error occurred with the CPU Unit. Check the CPU Unit and correct any errors.

Note If an error occurs in the CPU Unit and SR 24815 turns ON when the RUN/STOP Command Bit (word n bit 00) is being used (i.e., bits 00 to 07 of DM word m contain 0 Hex), the RUN/STOP Command Bit will turn OFF and the Customizable