

3.2. Special Data Registers

◎ PLC System Information		◎ Error Check		◎ A/D, D/A Conversion (Only EX Model)			
D1000	Watchdog timer (WDT) value	D1061	System detailed error code	D1056	Present value of analog input channel 0 (CH0)		
D1001	DVP model no. + memory cap. /type	D1065	Syntax error code	D1057	Present value of analog input channel 1 (CH1)		
D1002	Program memory capacitor	D1066	Loop error code	D1058	Present value of analog input channel 2 (CH2)		
D1003	Sum of program memory	D1067	Algorithm error code	D1059	Present value of analog input channel 3 (CH3)		
D1004	Error flag number	D1068	Lock the algorithm error address	D1110	Average of analog input channel 0 (CH 0)		
D1005	System message	D1069	Step number of errors associated with flags M1065~M1067	D1111	Average of analog input channel 0 (CH 1)		
D1008	Monitor the STEP position that occurs when timer time out	◎ System Usage		D1112	Average of analog input channel 0 (CH 2)		
D1010	Current scan time (unit: 0.1ms)	D1050	PLC will automatically convert the ASCII data saved in D1070~D1085 to HEX. Refer to chapter 7 Application Commands for more information.	D1113	Average of analog input channel 0 (CH 3)		
D1011	Minimum scan time (unit: 0.1ms)	D1055		D1116	Analog output channel 0 (CH 0)		
D1012	Maximum scan time (unit: 0.1ms)	D1070 ↓ D1085	When the PLC built-in RS-485 communication command receives feedback signals from receiver, the signals will be saved in the registers D1070~D1085. User can use the contents saved in the registers to check the feedback data. Refer to chapter 7 for more details.	D1117	Analog output channel 1 (CH 1)		
D1020	X00~X07 input delay setting (0~15ms)			D1089 ↓ D1099	When the PLC built-in RS-485 communication command is executed, the transmitting signals will be stored in the registers D1089~D1099. User can use the contents saved in the registers to check the feedback data. Refer to chapter 7 for more details.	D1118	For EX model only. It is the filter wave time setting between the A/D conversions, and with the default setting as 0 and the unit as 1ms, all will be regarded as 5ms if $D1118 \leq 5$
D1021	X10~X17 input delay setting (0~15ms)	D1256 ↓ D1295	ES: MODRW command of RS-485 is built-in. The characters that sent during executing is saved in D1256-D1295. User can check according to the content of these registers. (Using MOV, DMOV, BMOV to move the data in this area in version 4.9.)			◎ PLC System Setting	
D1022	AB phase counter mode selections			D1296 ↓ D1311	ES: PLC system will convert ASCII in the content of the register that user indicates to HEX. (Using MOV, DMOV, BMOV to move the data in this area in version 4.9.)	D1119	System used (PLC operation mode)
D1025	Communication error code	◎ RS-485 Serial Communication Port				D1121	PLC communication address
D1028	Index register E	When PLC MPU is master, the setting of data response delay time. Time unit is 0.1ms.				D1120	RS-485 communication protocol
D1029	Index register F					D1122	Residual words of transmitting data
D1030	Output numbers of Y0 pulse (Low word)	Constant scan time (unit: ms)				D1123	Residual words of receiving data
D1031	Output numbers of Y0 pulse (High word)					D1124	Start character definition
D1032	Output numbers of Y1 pulse (Low word)	◎ Step Ladder Diagram		D1125	First ending character definition (ETX1)		
D1033	Output numbers of Y1 pulse (High word)	D1040	ON state number 1	D1126	Second ending character definition (EXT2)		
D1039	Constant scan time (unit: ms)	D1041	ON state number 2	D1129	RS-485 time-out setting (ms)		
◎ Step Ladder Diagram		D1042	ON state number 3	D1130	MODBUS return error code record		
D1040	ON state number 1	D1043	ON state number 4	◎ Auxiliary System Check Information			
D1041	ON state number 2	D1044	ON state number 5	D1136	System used (Error diagnosis)		
D1042	ON state number 3	D1045	ON state number 6	D1137	Address of operator error occurs		
D1043	ON state number 4	D1046	ON state number 7	D1140	Special extension module number		
D1044	ON state number 5	D1047	ON state number 8	D1141	System used (Self-diagnosis code)		
D1045	ON state number 6					D1142	Input points (X) of extension unit
D1046	ON state number 7					D1143	Output points (Y) of extension unit
D1047	ON state number 8						