

SAVİOR OTOMASYON TEKNİK DESTEK BİRİMİ

PANASONİC PLC MODBUS ADRESLERİ

FP7 PLC Modbus Adres karşılıkları

6.2.1 List of MODBUS Function Codes

■ Table of supported commands

Code	Name (MODBUS)	Name	Remarks (Reference No.)	FP7 supported functions
01	Read Coil Status	Read Y and R Coils	0X	•
02	Read Input Status	Read X Contact	1X	•
03	Read Holding Registers	Read DT	4X	•
04	Read Input Registers	Read WL and LD	3X	•
05	Force Single Coil	Write Single Y and R	0X	•
06	Preset Single Register	Write DT 1 Word	4X	•
08	Diagnostics	Loopback Test	-	-
15	Force Multiple Coils	Write Multiple Y's and R's	0X	•
16	Preset Multiple Registers	Write DT Multiple Words	4X	•
22	Mask Write 4X Register	Write DT Mask	4X	-
23	Read/Write 4X Registers	Read/Write DT	4X	-

(Note 1) Types of MODBUS function codes vary by commands to be used.

■ Correspondence table for MODBUS reference No. and device No.

MODBUS reference No.		Data on BUS (hexadecimal)	PLC device number
Coil	000001-002048	0000-07FF	Y0-Y127F
	002049-034816	0800-87FF	R0-R2047F
Input	100001-108192	0000-1FFF	X0-X511F
Holding register	400001-465536	0000-FFFF	DT0-DT65535
Input register	300001-301024	0000-03FF	WL0-WL1023
	302001-318384	07D0-47CF	LD0-LD16383

(Note 1) The table above indicates correspondence between the MODBUS reference numbers for accessing from a higher device to FP7 using the MODBUS protocol, and the operation device numbers of FP7.

FP2 PLC Modbus Adres karşılıkları

FP2 PLC modelinde modbus protokol desteği standart olarak bulunmadığından MODBUS LIBRARY dosyası FPWINPRO yazılımına eklenmelidir. Bu şekilde MODBUS master veya Slave olarak FP2 serisi ile haberleşme sağlanabilmektedir. Modbus adresleri için ise FPX plc'nin adres tablosu referans alınabilir.

SAVIOR OTOMASYON TEKNİK DESTEK BİRİMİ

FPX PLC Modbus Adres karşılıkları

Supported commands

Executable instructions for master	Code (decimal)	Name (MODBUS original)	Name for FP-X	Remarks (Reference No.)
F146 (RECV)	01	Read Coil Status	Read Y and R Coils	0X
F146 (RECV)	02	Read Input Status	Read X Input	1X
F146 (RECV)	03	Read Holding Registers	Read DT	4X
F146 (RECV)	04	Read Input Registers	Read WL and LD	3X
F145 (SEND)	05	Force Single Coil	Write Single Y and R	0X
F145 (SEND)	06	Preset Single Register	Write DT 1 Word	4X
Cannot be issued	08	Diagnostics	Loopback Test	
F145 (SEND)	15	Force Multiple Coils	Write Multiple Ys and Rs	0X
F145 (SEND)	16	Preset Multiple Registers	Write DT Multiple Words	4X
Cannot be issued	22	Mask Write 4X Register	Write DT Mask	4X
Cannot be issued	23	Read/Write 4X Registers	Read/Write DT	4X

Table for MODBUS reference No. and FP-X device No.

	MODBUS reference No.	Data on BUS (hexadecimal)	FP-X device No.
Coil	000001-001760	0000-06DF	Y0-Y109F
	002049-006144	0800-17FF	R0-R255F
Input	100001-101760	0000-06DF	X0-X109F
Holding register ^{Note)}	400001-432765	0000-7FFC	DT0-DT32764
Input register	300001-300128	0000-007F	WL0-WL127
	302001-302256	07D0-08CF	LD0-LD255

Note) For C14; MODBUS reference No. → 400001-411285, data on BUS (hexadecimal) → 0000-2FFC, FP-X device No. → DT0-DT12784.

SAVIOR OTOMASYON TEKNİK DESTEK BİRİMİ

FPG PLC Modbus Adres karşılıkları

Supported commands

Executable instructions for master	Code (decimal)	Name (MODBUS original)	Name for FPΣ	Remarks (Reference No.)
F146 (RECV)	01	Read Coil Status	Read Y and R Coils	0X
F146 (RECV)	02	Read Input Status	Read X Input	1X
F146 (RECV)	03	Read Holding Registers	Read DT	4X
F146 (RECV)	04	Read Input Registers	Read WL and LD	3X
F145 (SEND)	05	Force Single Coil	Write Single Y and R	0X
F145 (SEND)	06	Preset Single Register	Write DT 1 Word	4X
Cannot be issued	08	Diagnostics	Loopback Test	
F145 (SEND)	15	Force Multiple Coils	Write Multiple Ys and Rs	0X
F145 (SEND)	16	Preset Multiple Registers	Write DT Multiple Words	4X
Cannot be issued	22	Mask Write 4X Register	Write DT Mask	4X
Cannot be issued	23	Read/Write 4X Registers	Read/Write DT	4X

Table for MODBUS reference No. and FPΣ device No.

MODBUS reference No.	Data on BUS (hexadecimal)	FPΣ device No.
Coil	000001-001184	Y0-Y73F
	002049-006144	R0-R255F
Input	100001-101184	X0-X73F
Holding register ^{Note)}	400001-432765	DT0-DT32764
Input register	300001-300128	WL0-WL127
	302001-302256	LD0-LD255

SAVIOR OTOMASYON TEKNİK DESTEK BİRİMİ

FP0R PLC Modbus Adres karşılıkları

Supported commands

Executable instructions for master	Code (decimal)	Name (MODBUS original)	Name for FP0R	Remarks (Reference No.)
F146 (RECV)	01	Read Coil Status	Read Y and R Coils	0X
F146 (RECV)	02	Read Input Status	Read X Input	1X
F146 (RECV)	03	Read Holding Registers	Read DT	4X
F146 (RECV)	04	Read Input Registers	Read WL and LD	3X
F145 (SEND)	05	Force Single Coil	Write Single Y and R	0X
F145 (SEND)	06	Preset Single Register	Write DT 1 Word	4X
Cannot be issued	08	Diagnostics	Loopback Test	
F145 (SEND)	15	Force Multiple Coils	Write Multiple Ys and Rs	0X
F145 (SEND)	16	Preset Multiple Registers	Write DT Multiple Words	4X
Cannot be issued	22	Mask Write 4X Register	Write DT Mask	4X
Cannot be issued	23	Read/Write 4X Registers	Read/Write DT	4X

Table for MODBUS reference No. and FP0R device No.

MODBUS reference No.		Data on BUS (hexadecimal)	PLC device No.
Coil		000001-001760	Y0-Y109F
		002049-006144	R0-R255F
Input		100001-101760	X0-X109F
Holding register	C10, C14, C16	400001-412315	DT0-DT12314
	C32, T32, F32	400001-432765	DT0-DT32764
Input register		300001-300128	WL0-WL127
		302001-302256	LD0-LD255