

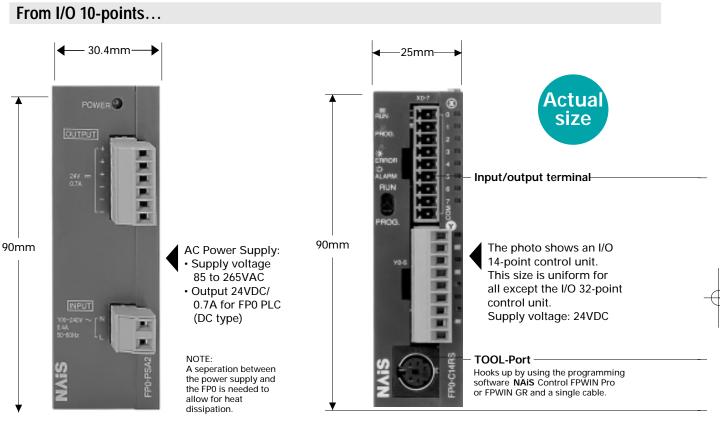


FP0 Series Programmable Controller

Panasonic ... the new name for NAiS



FP0 – Super Compact PLC Incredibly small, alone or even as multiple combined units



COM-Port: 2nd RS232C Interface (optional for all CPU units for serial communication)

Super Compact Size

A control unit a mere 25mm in width. Even expanded to I/O 128 points, the width is still only 105mm. The attachment area is the smallest in its class.

The control unit's dimensions are: W25* x H90 x D60mm. Also, the I/O unit can be expanded to a maximum of 128-points. Even so, the size is still only W105 x H90 x D60mm, a super compact design that breaks all previous common sense rules on small-scale PLCs. With the smallest-ever attachment area, the FP0 is perfect for installation in machines, facilities, and control boards where miniaturization is progressing even further.

*30mm width limited to I/O 32-points control unit.

Choose among 3 types of attachment







Slim attachment plate model



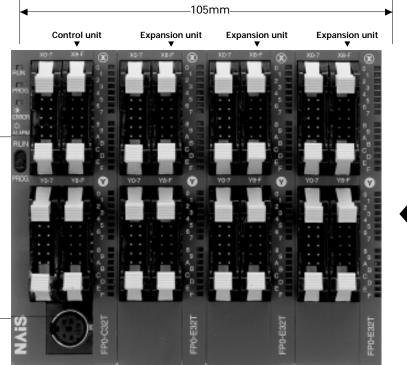
Flat attachment plate model (cannot be used with expansions)



Either 10 Points or the Maximum of 128 Points

You save this much space!

....up to 128 I/Os



Networking: - ETHERNET

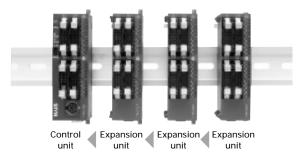
- PROFIBUS
- S-LINK
- MEWNET-F
- Analogue modules featuring different numbers of input and output channels
- Programming software:
 - Control FPWIN Pro according to IEC 61131-3
- Control FPWIN GR easy, conventional programming
- The photo illustrates adding three I/O 32-point expansion units to an I/O 32-point control unit, yielding 128 points.

Supply voltage 24VDC.

Easy Expansion

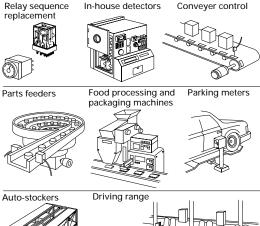
The expansion unit can be attached easily without any cables.

The expansion unit can easily be attached directly to the control unit. Special expansion cables, backplanes, and so forth, are unnecessary as the expansion unit employs a stacking system that uses expansion connectors and locking levers on the surface of the unit itself.

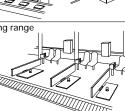


(Maximum possible expansion is three units)

Because of its super compact size and high capabilities, the units are useful in a wide variety of applications.









FP0 CPU Units

A rich line-up of both single and combined units

Control Ur	nits						
Relay output	type			Transistor ou	tput type		
				and a		2421	2.22.2
10 points Input Output 6 points 4 points FP0-C10RSA	10 points Input Output 6 points 4 points FP0-C10CRSA with 2nd RS232C	14 points Input Output 8 points 6 points FP0-C14RSA	14 points Input Output 8 points 6 points FP0-C14CRSA with 2nd RS232C	16 points Input Output 8 points 8 points FP0-C16PA (PNP) FP0-C16TA (NPN)	16 points Input Output 8 points 8 points FP0-C16CPA (PNP) FP0-C16CTA (NPN) with 2nd RS232C	32 points Input Output 16 points 16 points FP0-C32PA (PNP) FP0-C32TA (NPN)	32 points Input Output 16 points 16 points FP0-C32CPA (PNF FP0-C32CTA (NPN with 2nd RS232C
Control Ur		his advanced FP ffers additional f		S-LINK CF	טי	AC Power	Supply
FP0-T32C		10,000 steps program memo Battery backed Real-time clock 16383 words	RAM	FP0-SL1		FP0-PSA2	
32 poir		data register		S-LINK ma	ster	Input 85 to 265VAC	Output 24VDC/0.7A
Input 16 points	Output 16 points			for up to 128	8 I/Os	Termin	
FP0-T32CPA	(PNP)						
FP0-T32CTA	. ,						
with 2nd R	S232C						

Expansion combinations

A maximum of 3 expansion units can be added to the control unit. (Combining relay output types and transistor output types is also possible. In this event, the maximum number of I/O points when using a relay output type control panel is 110.)

Combinations with relay output type - Examples

(Total number) of I/O points)	=	Control unit	+	(Expansion unit 1) X20~/Y20~	+	(Expansion unit 2) X40~/Y40~	+	(Expansion unit 3) X60~/Y60~
22 Input 12 Output 10	=	14 Input 8 Output 6	+	8 Input 4 Output 4				
26 Input 14 Output 12	=	10 Input 6 Output 4	+	16 Input 8 Output 8				
30 Input 16 Output 14	=	14 Input 8 Output 6	+	16 Input 8 Output 8				
34 Input 18 Output 16	=	10 Input 6 Output 4	+	16 Input 8 Output 8	+	8 Input 4 Output 4		
38 Input 20 Output 18	=	14 Input 8 Output 6	+	16 Input 8 Output 8	+	8 Input 4 Output 4		
42 Input 22 Output 20	=	10 Input 6 Output 4	+	16 Input 8 Output 8	+	16 Input 8 Output 8		
46 Input 24 Output 22	=	14 Input 8 Output 6	+	16 Input 8 Output 8	+	16 Input 8 Output 8		
54 Input 28 Output 26	=	14 Input 8 Output 6	+	16 Input 8 Output 8	+	16 Input 8 Output 8	+	8 Input 4 Output 4
62 Input 32 Output 30	=	14 Input 8 Output 6	+	16 Input 8 Output 8	+	16 Input 8 Output 8	+	16 Input 8 Output 8



FP0 Expansion Units

Choose the number of I/O points to suit the application

Digital I/O	Units							
Relay output typ	be	Input o	nly type		Transistor ou	tput type		
Transaction of the second	Normal Access	24	1	- 1	1	A A A A		A A A A A A A A A A A A A A A A A A A
8 points Input Output 4 points 4 points FP0-E8RSA Option: Output 8 points	16 points Input Outpu 8 points 8 poin FP0-E16RSA	ut Ing ts 8 pc	but bints E8XA	16 points Input 16 points FP0-E16XA	8 points Output 8 points FP0-E8YPA (PNP) FP0-E8YTA (NPN)		16 points Output 16 points FP0-E16YPA (PNP) FP0-E16YTA (NPN)	32 points Input Outp 16 points 16 poi FP0-E32PA (PN FP0-E32TA (NP
FPO-E8YRSA	/O Units	i		Thermo	ocouple an	d RTD Units	Networki	ng Units
					(* 1990)	1 		
3 points Input Output 2 points 1 points	4 points Output 4 points	4 points Output 4 points	8 points Input 8 points	4 points Input 4 points	8 points Input 8 points	6 points Input 6 points	MEWNET-F FP0-IOL (MEWNET-F Slave)	S-Link CPU FP0-SL1 (S-LINK Maste
hput (12 bit): ± 10V, 0 – 5V, 0 – 20mA Output (12 bit):	FP0-A04I - - 4 – 20mA		FP0-A80A ± 10V, ± 100m\ 0 – 5V, 0 – 20mA –	 be used Resolution: (8°C (R type: 3°C) e range:	rP0-RTD6 • Pt100, Pt1000, N11000 • Temperature range -200 to 500° C		
Combinatio	ns with t	ransista	r output t	vno – Eva	mnles			PROFIBUS FP0-DPS2 (DP Slave)
(Total number of I/O points) –	Contro			on unit 1) +	Expansion unit 2 X40~/Y40~		sion unit 3) >-/Y60~
48 Input 24 Output 2		32 Input 16	Dutput 16		6 Output 8			
64	=		Output 8		2 Output 16 2			
Input 32 Output 3	2 =	32 Input 16	Output 16	Input 16	2 Output 16			



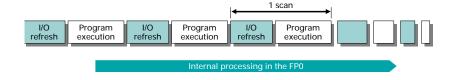
FP0 – Impressive Capabilities High specifications for both speed and capacity

0.9µs per basic instruction. Pulse catch and interrupt input functions meet the need for high-speed response.

High-speed execution

Execution speed of 0.9µs per basic instruction. 500 steps program yields a scanning time of 1ms, which means the FP0 boosts the fastest processing time among the products of this class.

Internal processing in the FP0



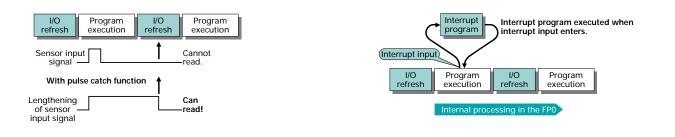
Pulse catch function

Can read pulses as short as 50µs, which greatly facilitates sensor input.

Pulse catch function

Interrupt input function

Accurate processing, unaffected by scan time • Interrupt input function



Large capacity

A top-class large 5k and 10k steps program capacity housed within a compact body. Furthermore, data capacity for internal devices like the data register is also ample. The unit's high performance is even suited to complicated controls and controls with multiple amounts of data.

	Control unit type					
	I/O 10-point, 14-point, 16-point type	I/O 32-point type	FP0-T32 CP/T			
Program size	2 720 steps	5 000 steps	10 000 steps			
Internal relays	1 008 points					
Timers/Counters	144 points					
Data registers	1 660 words	6 144 words	16 383 words			

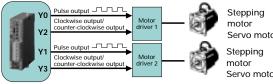


FP0 – Impressive Capabilities FP0 functions

Equipped with 2-axis independent positioning and high-speed counter for support of PWM output.

Pulse output function

(For transistor output type only) The unit comes equipped with 2 channels for the output of up to 10kHz pulses (5kHz during 2-channel output). Since these two channels can be separately controlled, the PLC is also suitable for independent 2-axis positioning. Setting automatic trapezoid control, automatic return to home position and JOG operation are made very easy by using instructions specially designed for such operations.



Moto

Feeder roller

START/STOP

Encoder output putted into nigh-speed counter

Inverter

Cutter

Positioning control is a breeze with the auto trapezoid control command!

Servo motor Servo motor

Lead wiring Û. tape

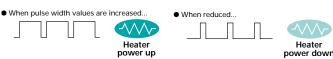
> Cutter blade ontrol signal

High-speed counter function

The high-speed counter is prepared for 4 channels in single phase, and 2 channels in 2-phase. In single phase, the 4-channel total is 10kHz, and in 2-phase the 2-channel total is 2kHz total speed, making the unit suitable for conveyer control, inverter control, and so forth using an encoder. Encoder

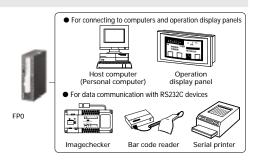
PWM output function

Its PWM (Pulse Width Modulation) output function makes it possible to provide temperature control with a single compact FP0 unit. (For transistor output type only)



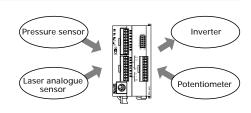
Serial communication function

- The FP0's second RS232C port (types C10CRS, C14CRS, C16C, C32C, and T32C) allows direct connection to computers and operation display panels. Also, bi-directional data communication with barcode readers and other RS232C devices is made easy.
- · Both the relay type and transistor output type control units are optionally equipped with a 2nd RS232C port.



Analogue control function

Analogue control is made simple with four types of analogue modules featuring different numbers of input and output channels. Also, despite the small size, the I/O resolution is a high 1/4000 (12 bits). Support various I/O ranges by setting the DIP switches on the analogue I/O unit for simple operation.







FP0 Communication Serial interfaces and modem compatible

Communication – Simple and efficient via two serial interfaces: TOOL-Port and COM-Port (RS232C interface).

Programming interface TOOL-Port (also for communication)

In Computer Link mode, this port offers access to the entire FP0 memory area. For example during data exchange between a host PC running SCADA software and an FP0 PLC, the Windows[®] based MEWNET-DDE Server assumes total control of the communications protocol (MEWTOCOL.COM). Therefore the user can disregard the allocation of data ranges and transfer parameters, because there is no additional programming required. The programmer is thus free to concentrate exclusively on the project application requirements.

Communication Interface COM-Port

(flexible with two modes of operation, Computer Link and General Purpose)

In addition to the Computer Link communication possibilities described above, the optional integrated RS232C COM-Port in the FP0 CPU module (types FP0-C10CRS, FP0-C14CRS, FP0-C16C, FP0-C32C and FP0-T32C) offers flexible programming i.e. General Purpose. In this configuration it is possible to realise communication connections with different RS232C peripheral devices, e.g. Bar Code Readers, slave devices, printers, measurement sensors or telecommunication transmitters, etc.



Communication Interface COM-Port

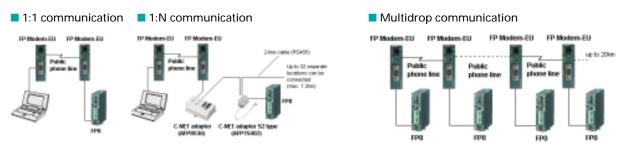
Freely programmable RS232C interface for CPU modules type FP0-C10CRS, FP0-C14CRS, FP0-C16C, FP0-C32C and FP0-T32C

Programming Interface TOOL-Port

For programming, and additionally Master/Slave communication, using MEWTOCOL COM (Matsushita protocol)

Modem compatible

Even modem communication function is built into this compact body. Using a single telephone line, programming maintenance can be carried out in remote facilities. With C-NET, multiple FPO units can be connected.





FP0 Communication

Easier maintenance than ever before

Maintenance saving

Program memory uses EEPROM. In addition, programs can be changed even in RUN mode!

Overwrite function in RUN mode

It is possible to overwrite a program while the FP0 is running, such as during program debugging and startup adjustments.

Backup battery unnecessary

The program memory uses EEPROM. The program and device contents can be stored without a backup battery, and even programming for a machine builder is safe.

Password function

A password function can be set in order to change a program. Limited to people authorized to make program changes, protection can be guaranteed better than ever.

Input/output verification LED

Every unit is equipped with LED I/O indicators, housed within a compact body. Input/output status can be verified at a glance.

Simple installation

Comes with either terminal block or connector. Either type is easy to connect to wiring by simply removing the terminal section.

Terminal block



Compatible models FP0-C10RS, C10CRS, C14CRS, E8RS, E16RS

MIL connector



Unit connectors can be used with 16-points and 32-points units. Due to the loose-wiring, pressure contact type design, wiring is easy without the need for insulation. (MIL-C-83503)

Compatible models FP0-C16T/C16P/C16CT/C16CP, C32T/C32P/C32CT/C32CP, E16T/E16P, E32T/E32P, FP0-T32CP/T32CT

FP0 PROFIBUS DP Slave or Remote I/O Unit

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For cost effective control of distributed field device

The FP0 DPS2 can operate either as a DP slave module or as a remote I/O system to which different decentralised inputs and outputs can be connected. A DIP switch can be used to switch between the two modes:

Mode 1:

DP-Slave module. Connect the FP0 or FP Σ (Sigma) CPU + expansion modules to the PROFIBUS network.

Mode 2:

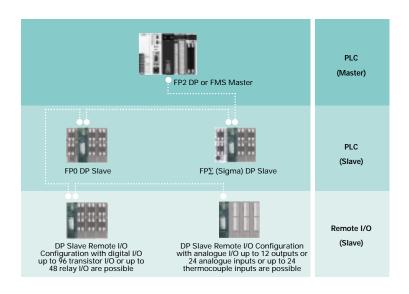
Remote I/O. Connect up to three expansion modules without CPU to the PROFIBUS network.

In Remote I/O mode the unit can be connected to any PLC which offers a PROFIBUS communication interface, making it totally independent of NAiS PLCs.



FP0-DPS Specifications

Item Description		Description
Type designation		FP0 DP Slave unit, Ord. No. FP0DPS2
PROFIBUS standards complied with		EN 50170, DIN 19245 Part 1 and Part 3
Baud rates		9.6 / 19.2 / 93.75 / 187.5 / 500 / 1,500 / 3,000 / 6,000 / 12,000 Kbaud
Baud rates		automatic baud rate detection
Range of adresses that can be set		0125
PROFIBUS connection		9-pin D-sub connector
Configuration	DP-Slave	2 words input / 2 words output, up to 6 words input / 6 words output if no other expansion is connected
Connyuration	Remote I/O	Remote I/O, max. 3 FP0 expansion units
FP0 communication		Via FP0 system bus
Power supply		24VDC (21.6VDC 26.4VDC)
Max. power consumptio	n	100mA



Special developed software tools ensure easy configuration and start-up of PROFIBUS products.





FP0 S-LINK Unit Connects directly to the S-LINK for reduced wiring



Item

Power supply

S-Link is a system which simplifies connection of rapidly increasing control devices accompanying progressing automation and is useful in reducing your costs and construction time.

Features

Description

- Small size of only W30 x H90 x D60 mm. Makes use of the T-shaped connectability of the S-LINK for reduced wiring and reduced size of the control panel.
- **2. Controls 64 input points and 64 output points.** Able to control up to 128 points for S-LINK-related devices.
- **3. Allows simultaneous use of expansion units.** Similar to other FP0 units, up to three expansion units can be used for efficient I/O wiring.

FP0-SL1 4. A wide range of I/O modules allow manifold customer-oriented network layouts.

Power Supply Specification

Applicable Network

Item	Description
Remote I/O	Control unit functions as S-LINK master station. Available as a slave station of MEWNET-F by adding I/O link unit
Inter-PLC link	Not available
Computer link	Linkable with tool port or RS232C port
Modem connection	Available, Type with RS232C port can also send data

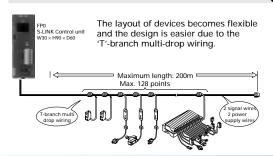
Other Built-in Functions

Item	Description
Program block-edit during RUN	Available
Constant scan	Available
Adjustable input time filtering	Not available
Clock/Calendar function	None

Applicable Functions

Item	Description
Pulse catch/Interrupt input	None
Analogue I/O	Available by adding analogue I/O unit
Volume input	None
High-speed Counter	None
Pulse output	None
RS232C port	1 ch is equipped. 3P terminal blocks (made by Phoenix Contact Co.)

Direct connection for reduced wiring



Wire-saving

The use of wires is greatly reduced and the number of connecting terminal blocks is minimized, resulting in large reduction in cost, as well as, the waste generated during wiring.

Space effective

S-Link devices are compact. The control box can be mounted in a tight space.

Quick construction

Sensors cab be easily connected with plug-in connection.

 Performance Specifications

 Item
 Description

Item		Description		
Number of	of I/O points	S-LINK block: 64 input points, 64 output points (fixed)		
Expansio	n	Max. 3 units Expansion section: Max. 96 points		
Operation	n speed	0.9µs/step		
Internal n	nemory	EEPROM		
Memory	capacity	5k steps		
Memory	Internal relay	1,008 points		
of	Timer/Counter	144 points in total		
execution	Data register	6,144 words		

24VDC

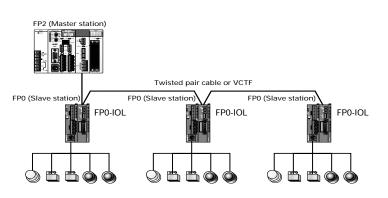


FP0 MEWNET-F Unit Networking units

MEWNET-F

The FP0 can be used as a slave station for MEWNET-F (remote I/O system) by adding I/O link unit.

MEWNET-F is a reduced-wiring remote I/O system that connects PLCs located separately and I/O slave stations with 2-core cabling. By adding an I/O link unit to the FPO, you can link master station PLC and FPO inputs and outputs via the network.





MEWNET-F Slave FP0-IOL

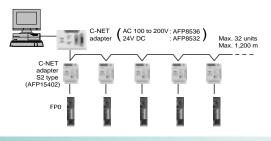
FP0-IOL Link Unit Specifications

Item	Description
Communication method	Two-wire, half duplex transmission
Synchronous system	Start stop synchronous system
Transmission line	2-wire cable (Twisted-pair cable or equivalent to VCTF 0.75 mm ² x 2C)
Transmission distance (Total distance)	Max. 700m per port (using twisted pair cable) Max. 400m per port (using VCTF cable)
Transmission speed (Baud rate)	0,5Mbit/s
Number of control I/O points per an I/O link unit	64 points (Input: 32 points and Output: 32 points)
Remote I/O map allocation	32X/32Y
Interface	Conforms to RS485
Transmission error check	CRC (Cyclic Redundancy Check) method

C-NET

By using C-NET, you can use multiple FP0s as data collection terminals.

By using the C-NET network and exclusive adapters, you can connect multiple FP0s by multi-drop connection with 2-wire cables. You can use computers for separate control or have network terminals for a centralized management system.





FP0 Thermocouple Input Expansion Units

Enable high precision temperature control at low cost

The FP0-TC4 and FP0-TC8 thermocouple units are suitable for user friendly temperature acquisition using standard thermocouples with high precision.

- Up to three units can be added to each control unit, enabling temperature control of up to 24 channels.
- The temperature data obtained using the thermocouple is converted to the digital value to be read into the FP0 control unit.
- Standard types of thermocouples can be used: K, J, T and R
- 3 temperature measurement ranges are available:
 - -100°C to +500°C (Thermocouple types: K and J)
 - -100°C to +400°C (Thermocouple type : T)
 - 0°C to +1500°C (Thermocouple type : R)
- The temperature data measured using the sensor is converted to degrees Celsius or degrees Fahrenheit inside the Thermocouple Unit.
- The converted data (°C or °F) is averaged, so that even unstable input signals can be properly read.
- Broken thermocouples can be detected.

Temperature control





FP0 TC8 8 channels

FP0 TC4 4 channels

FP0-TC4 and FP0-TC8 specifications

Item	Specification					
Input points	Up to 8 channels per unit (The number of input points can be changed 2, 4, 6 and 8 channels are available)					
	Thermocouple types K, J -100°C to 500°C					
Input range	Thermocouple types T	nocouple types T -100°C to 400°C				
	Thermocouple types R	0°C to 1500°C				
Resolution	0.1°C					
Sampling cycle	300ms: when using 2 channels for an input points 500ms: when using 4 channels for an input points 700ms: when using 6 channels for an input points 900ms: when using 8 channels for an input points					
Accuracy	Range for K and J Range for T Range for R	(-100°C to 500°C): (-100°C to 400°C): (0°C to 99.9°C): (100°C to 299.9°C): (300°C to 1500°C):	0.8°C 0.8°C 3°C 2.5°C 2°C			
Input Impedance	more than 1MΩ					
Insulation method	between thermocouple input terminals and control unit internal circuits Photo-coupler insulation/DC-DC insulation between thermocouple input terminal channels PhotoMOS relay insulation					

Analogue Signal Processing FP0 Analogue Units

Features



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The analogue units can be used with the FP0 and $FP\Sigma$ (Sigma) so wide range applications are possible from small-scale machines to factory production systems.

Each CPU supports up to 3 FP0 analogue units. Combination with digital and analogue expansion units is freely allowed.

Highest performance is offered with 12-bit resolution. With a current and voltage output conversion time of up to 500µs, the units are capable of high-speed processing.

The multimode FP0 analogue unit can be configured via the DIP switches on the front side into the required analogue ranges. Communication with the FP0 CPU unit is achieved via the expansion bus. The expansion bus is automatically connected after the FP0 analogue unit is connected to the FP0 CPU unit.

Note: Function Blocks for FPWIN Pro Programming System can be downloaded free of charge from our WEB-page.



Analogue Signal Processing

FP0 Analogue Units

General specifications

Item	Description		
Rated operating voltage	24VDC		
Operating voltage range	21.6 to 26.4VDC		
Rated current consumption	P0-A80: 60mA or less, FP0-A21/A04V: 100mA or less, FP0-A04I: 130mA or less		
Ambient temperature	0°C to +55°C		
Storage temperature	-20°C to +70°C		
Size	90 x 25 x 60mm		
Weight	appoximately 100g		

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Analogue input specification

Item	Description						
Product		FP0-A21	FP0-A80				
Number of channels		2 channels/unit	8 channels / unit				
	Voltage mode	0 to 5V/-10V to +10V	-100 to +100mV/0 to 5V/-10V to +10V				
	Current mode	0 to 20mA	0 to 20mA				
Input range selectable (2 CH)	Thermocouple mode	K, J, T type thermocouple K up to 1000°C or -100°C to terminal temperature (selectable) J up to 750°C or -100°C to terminal temperature (selectable) T up to 350°C or -100°C to terminal temperature (selectable)	-				
Distal subsut	0 to 5V/0 to 20mA: -10 to +10V (-100 to		T				
Digital output	For plus	value of broken wire detection is K 20000. K temperature of terminal (*2) to K 1000 (Unit is Celsius) K-100 to K temperature of terminal (*3) (Unit is Celsius)	-				
Resolution		12 bits (1/4000)					
Conversion speed	Voltage/current mode: 1ms/channel 2ms/channel Thermocouple mode: 560ms/channel 2ms/channel						
			o 55°C), 0.6% for full-scale (at 25°C)				
Overall accuracy	Thermocouple mode	2.7% for full-scale (¹ -type) 5.8% for full-scale (¹ -type) linearity error (0 to 55%): 1% for full scale					
Input impedance		Voltage mode: 1M o					
inpat imposance		Current mode: 2500hm					
Maximum input	Voltage mode: +/- 15V Current mode: +30mA						
Insulation	Optical coupler insulation between analogue input terminal and FP0 internal circuit (No insulation between analogue inputs) DC/DC converter insulation between analogue input terminal and analogue I/O unit external power supply						
	DC/DC converter ins	ulation between analogue input terminal and analogue output te					
FP0 input address	32 input contact points: First 16 points analogue input CH0 data (WX2) (*4) Last 16 points analogue input CH1 data (WX3) (*4) CH0, 2,4,6 data (WX2) (*4) Last 16 points analogue input CH1 data (WX3) (*4)						

(*1) K means decimal constants.
(*2) Reference temperature → Reference points is start points.
(*3) Reference temperature → Reference points is end points.
(*4) The address varies depending on the position of the analogue unit. (WX2/3, WX4/5 or WX6/7)

Analogue output specification (FP0-A21)

Item			Description		
Product		FP0-A21	FP0-A04V	FP0-A04I	
Number of channels		1	4	4	
Output signal selectable	Voltage mode Current mode	-10V to +10V 0 to 20mA	-10V to +10V	4 to 20mA	
Digital input (*1)		0 to 20mA: K 0 to K 4000 -10V to +10V: K -2000 to K+2000	K -2000 to K+2000	K 0 to K 4000	
Resolution 12 bits (1/40)			12 bits (1/4000)		
Conversion speed		500ms	500µs	500µs	
Overall accuracy		1% for full-scale (0 to 55°C), 0.6% for full-scale (at 25°C)			
Output impedance		Voltage mode: less than 0.50Ω -			
Maximum output current			Voltage mode: +/- 10mA	-	
Allowable output load resistance		less than 300Ω	less than 300Ω 1000Ω or more		
Insulation		Optical coupler insulation between analogue output terminal and FP0 internal circuit DC/DC converter insulation between analogue output terminal and analogue I/O unit external power supply DC/DC converter insulation between analogue output terminal and analogue input terminal			
Reserved CPU addresses (*4)		16 output points	32 output points	32 output points	



FP0 RTD Input Expansion Unit

User friendly acquisition of temperatures with high precision

Features

- The module can be easily installed in an existing system: Special connection cables, backplanes, and so forth are unnecessary as the expansion unit employs a stacking system that uses expansion connectors and lock levers on the surface of the unit itself.
- Multiple RTD types are allowed in one module, creating a cost-effective solution.
- About the Application areas:
 - Measurement and control equipments
 - Process and Machine controls
 - Greenhouse and Agro industries



FP0-RTD6 6 channels

Take advantage of the various FPWIN Pro libraries with many functions and function blocks. These ready-made programs can be saved and reused time and again and will help you to shorten the time needed to develop applications drastically, and consequently to save valuable human resource costs.

Controller Library: NCL-MR-LIB

The programmable logic arrays of the controller library simplify the programming of closed loop controlled electrical installations. The library includes linear and non linear controller types such as the P/I/PI/PID controller and two points-/three-points controller with and without hysteresis. Programmable logic arrays for dead band, interpolation, lamp limiting, dead time and averaging are also included.

	PID_Control
	PID FB
TRUE	Automatic
FALSE	Forward
FALSE	I PD
set value SP	SP
Process Value PV	PV
15	Kp
200	Ti
	Td
10	Ts
0	LowerLimit
1000	UpperLimit
Output_Value_MV	MVMV
salan_tam_int	inter second

FP0-RTD6 specifications

Item		Specification		
Input points	Up to 6 channels per unit - 3 inputs per one Phoenix screw terminal - for every sensor 3 screws			
Input type	Pt 100 -200°C to	500°C (3 wire)		
	Pt 1000 -100°C to	200°C (2 wire)		
	Ni 1000 -30°C to 1	50°C (2 wire)		
	Resistor measurement			
Sampling cycle	0.1sec / 1sec for 6 channels - depending on the switch setting (slower cycle timer = higher accuracy)			
Temperature resolution	0.1 K			
Accuracy	cycle time 0.1 sec:	Pt 100: 0.5%/3.5K, Pt 1000: 05%/2.5K, Ni 1000: 2K, Resistor:2Ω		
at ambient temperature: 0-55°C	cycle time 1 sec:	Pt 100: 0.35%/2.5K, Pt 1000: 035%/1.7K, Ni 1000: 1K, Resistor:1Ω		
Accuracy	cycle time 1 sec:	Pt 100: 0.3K from -10 to +30°C, 0.2%/1.4K from -200 to +500°C		
at ambient temperature: 25°C		Pt 1000: 0.3K from -10 to +30°C, 0.2%/1.0K from -200 to +300°C		
Size	W 25 x H 90 x B 60 mm			

FP0 Series Specification tables

FP0 Specifications

_			C10 series	C14 series	C16 series	C32 series		T32 series
Ту	Type of control unit			(Relay output type only)		(Transistor output type only)	S-LINK type	(Transistor output type only)
Programming method / Control method				Relay symbol/C	vclic operation			
	No expansion		Total: 10	Total: 14	Total: 16	Total: 32	Total: 128	Total: 32
	(control unit only)		(Input: 6, Output: 4)	(Input: 8, Output: 6)	(Input: 8, Output: 8)	(Input: 16, Output: 16)	(Input: 64, Output: 64)	(Input: 16, Output: 16)
Number of I/O points	W/expansion 1 *Same type of control and expansion units		Max. 58	Max. 62	Max. 112	Max. 128	Expansion section:	Max. 128
	W/expansion 2 *Mix type of relay and transistor units		Max. 106	Max. 110	Max. 112	Max. 128	max.96 points	Max. 128
Program men	nory			EE	PROM (No back-	up battery require	d)	
Program capa	acity			2.7K steps		5K s	teps	10K steps
Kinds of	Basic				8	3		
instruction	High-level				11	15		
Operation spe	ed (cental v	/alue/step)			0.9µs (Basi	c instruction)		
	Relay	Intermal relay (R)			1,008	points		
Memory for	Relay	Timer/Counter (T/C)			144 p	ooints		
execution	Memory	Data register (DT)		1,660 words		6,144	words	16,384 words
	area	Index register(IX,IY)			2 w	ords		
Master control relay (MCR)			32 points					
Number of lal	Number of labels (JMP and LOOP)		64 labels 255 labels					
Differential po	Differential points		Unlimited number of points					
Number of ste	ep ladder				128 s	tages		704 stages
Number of su	broutines				16 sub	routines		100 subroutines
High speed counter		d counter	1 phase/4 points	(10kHz in total) or	2 phases / 2 point	s (2kHz in total)*	Not available	Available (same as
	Pulse outp	ut	Not av	ailable	2 points (10 kHz* in t channels individually	otal),enable to control 2	Not available	32 points series)
	PWM outp	ut	Not av	ailable	0.15Hz to 1kHz Not		Not available	
	Pulse catch	input/interrupt input		6 points(with hig	h speed counter) Not available		Not available	Available (same as
Special	Interrupt pr	ogram	7 prog				1 program (internal 1 point	 32 points series)
functions	Periodical i	nterrupt			0.5ms	to 30s		
	Constant s	can			Avai	lable		
RS232C port		One RS232C port is mounted on each of the models FP0- C10CR, C14CR,C16CT, C16CP, C32CT, C32CP, T32CT, T32CP and SL1 type (3P terminal bl Transmission speed (Baud rate): 300 to 19200bits/s, 3m Communication method: half duplex Transmission distance: 3m				L1 type (3P terminal block)		
		Program and system register		Stored program and system register in EEPROM		PROM		
Maintenance	Memory back up	Operation memory	Stored fixed are Counter: 4 poin Internal relay: 3 Data register: 8	ts 2 points	<u> </u>	Stored fixed are Counter: 16 poi Internal relay: 1 Date register: 3	nts 28 points	Backup is provided by secondary battery. The holding range for the timers, counters, internal relays, and data regis- ters are specified with the programming tool.
	Self-diagno	sis functions	Watchdog timer, program syntax checking, etc.					
		nder function	Not available Available Available				Available	
Other functions		Runtime editing, password setting						

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* For the limitations while operating units, see the manual.

General Specifications

Item		Description	
Rated operating voltage		24VDC	
Operating voltage range		21.6 to 26.4VDC	
Allowable no voltage time	10 points, 14 points type	5ms (at 21.6 V), 10ms (at 24V)	
Allowable no voltage time	16 points, 32 points, S-LINK type	10ms (at 21.6V / 24V)	
Ambient temperature		0°C to +55°C	
Storage temperature		-20°C to +70°C	
Ambient humidity		30 to 85% RH (Non-condensing)	
Storage humidity		30 to 85% RH (Non-condensing)	
Breakdown voltage		Between input/output terminals and power/ground terminals: 500VAC for 1 minute (for the relay output type, 1500VAC for 1 minute) Between input terminals and output terminals: 500VAC for 1 minute (for the relay output type, 1500VAC for 1 minute)	
Insulation resistance		Between input/output terminals and power/ground terminals: Over 100 M Ω (using a 500VDC megger) Between input terminals and output terminals: Over 100M Ω (using a 500VDC megger)	
Vibration resistance		10 to 55Hz, 1 sweep/min., double amplitude of 0.75mm, 10min. on 3 axes	
Shock resistance		98m/s ² or more, 4 times on 3 axes	
Noise immunity		1,000V(p-p) with pulse widths 50ns and 1ms (using a noise simulator)	
Operating condition		Free from corrosive gasses and excessive dust	

FP0 Series

Specification tables

Interfaces

Item	Description
Programming TOOL-Port	RS232, mini DIN socket (5 pin), 9600 or 19200 BAUD, (8 data bits, odd parity, 1 stop bit), Computer link for programming and communication with MEWTOCOL.COM, user configurable modem connection
Communication COM-Port	RS232 (SD, RD, GND) 3 way screw terminal, 300 to 19200 BAUD, (7 or 8 data bits, none/even/odd parity, 1 or 2 stop bits, start code: none/STX, end code: CR/CR+LF/ETX/none, CCU mode for programming and communication with MEWTOCOLCOM, user configurable modem connection, GENERAL PURPOSE MODE controlled by program for general purpose RS232 communication.

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Input specifications

Item		Description	
Insulation method		Optical coupler	
Rated input voltage		24VDC	
Operating voltage range		21.6 to 26.4VDC	
Rated input current		4.3mA or less (at 24VDC)	
Input points per common		6 points/common (C10RS) 8 points/common (C14RS,C16T/C16P,E16T/E16P) 16 points/common (C32T/C32P,E32T/E32P)	
ON voltage/ON current		19.2V or less/ 3mA or less	
OFF voltage/OFF current		2.4V or more/ 1mA or more	
Input impedance		Approx. 5.6kΩ	
		50µs or less (at X0,X1)(*)	
	OFF → ON	100µs or less (at X2 to X5)	
esponse time		2ms or less (at X6 to XF)	
	ON→ OFF	same as above	
Operating indicator		LED display	

Note: (*): Since the response time of X0 to X5 is very fast (for high-speed counter input), the FP0 happens to catch chattering noise as an input signal. To prevent this, it is recommended that timer instruction should be included in the program.

Output specifications

1) Relay output type

Item		Description
Output type		Normally open(1 Form A)
Rated control capa	acity	2A 250VAC, 2A 30VDC(4.5A/common)
Despense time	OFF→ ON	10ms or less
Response time	ON→ OFF	8ms or less
Life	Mechanical	20million operations or more
Life	Electrical	100k operations or more
Surge absorber		None
Operation indicator		LED display

The FP0 series conforms to the following standards under the EMC Directive and the Low Voltage Directive.

EMC Directive (89/336/EEC) EN 50081-2: 1993 EN 50082-2: 1995

Low Voltage Directive (73/23/EEC) VDE 0160: 1988 (EN 50178: 1995) (Overvoltage Category II, non-mains-circuit, pollution degree 2) EN 61131-2: 1995

2) Transistor output type

Item			Description	
Insulation method	l		Optical coupler	
Output type			Open collector	
Rated load voltage	е		24VDC 5 to 24VDC	
Load voltage allow	vab	le range	4.75 to 26.4VDC	
Max. load current			0.1A/points(at DC26.4V) (1A/common)(*1)	
Max. inrush curre	nt		0.3A	
Leakage current a	t OF	FF time	100µA or less	
Max. voltage dow	n at	ON time	1.5V or less	
External power		Voltage	21.6 to 26.4VDC	
supply (For internal circu	it)	Current	240mA or less	
		FF → ON	1ms or less	
Response time ON→		N→ OFF	1ms or less(*2)	
Surge absorber			Zener diode	
Operating indicate	or		LED display	
Natas	-			

Notes:

(*1): 8points/common(C16T/C16P,E16T/E16P), 16points/common(C32T/C32P, T32CP, E32T/E32P)
 (*2): 50μs or less at Y0, Y1 only



Control FPWIN Pro PLC programming software conforming to IEC 61131-3

Control FPWIN Pro is the Matsushita programming software according to the international standard IEC 61131-3. **Control FPWIN Pro** works with the FP0 as well as any FP series programmable controller. Also, since the tool port is an RS232C, connection to a PC is easy – it only requires a single cable. No converter or adapter is required.

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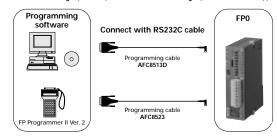




Control FPWIN Pro - Programming

The most important highlights at a glance:

- Reuse of ready made functions and function blocks saves time for programming and debugging
- 5 programming languages (Instruction List, Ladder Diagram, Function Block Diagram, Sequential Function Chart, Structured Text)
- Convenient comment application in 6 languages (English, German, French, Italian, Spanish, Japanese)
- 4 standard libraries (IEC Standard library, Matsushita library (M Lib), Pulsed library (P Lib), NC Tool library (NC Tool Lib))
- E Fewer errors through defined data types and encapsulation
- Well-structured through programme organisation units, taskand project management
- Online monitoring and diagnostic
- Ethernet and Modem communication for remote-programming, -service, and -diagnostic
- Password protection with different levels
- Many additional application libraries available
- IEC 61131-3 protects your investments for the future





Control FPWIN GR

PLC programming software for easy operation

Features

FP Series programming software for Windows.

- 1. To facilitate operation on site, a mouse is not required for input, search, write, monitor and timer edit operations. Everything can be accomplished with a keyboard alone.
- 2. Standard Windows operations, such as copy and paste, are included.
- 3. Supports all FP series machines. Software created with NPST-GR Ver. 3 or 4 can also be used.
- 4. Inherits convenient functions developed for NPST-GR.

Usage environment

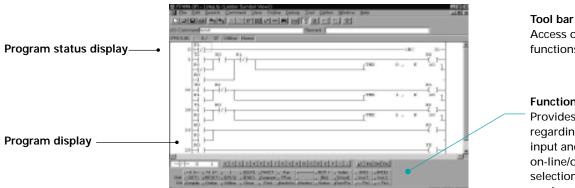
OS	Windows 95/98/NT (Ver. 4.0 or later)/XP
Required hard disc capacity	At least 30MB
Recommended CPU	Pentium 100MHz or higher
Recommended installed memory	32MB or more
Recommended screen resolution	800 x 600 or higher
Recommended display colors	High Color (16-bit or higher)

Applicable PLC types

*All products on the market are supported. All FP series types are supported: FP∑ Sigma, FP0, FP-e, FP1, FP2, FP2SH, FP3, FP10SH, FP-M

Note: FPWIN GR Vers. 2.2 or later is needed to program the FP-e

Menu



Function instruction list



Classified by type, function commands can be selected from the displayed list. (Simple help included.)

I/O comment edit function



Successive I/O comments can be input for each device type. Data from Excel and other applications can be copied and pasted via the clipboard.

Access often-used functions using icons.

Function bar

Provides information regarding command input and confirmation, on-line/off-line selection and PLC mode selection.

Status display



Displays information concerning PLC usage environment and settings, and detailed information when an error occurs.



Control CommX, PCWAY, OPC Server

Visualisation software for ready made or customised solutions

Control CommX

The connection in ActiveX technology.

- Connects your Visual Basic application to Matsushita PLCs.
- Gives you the possibility to easily develop highly customised control solutions.
- Create your own application very quickly by simply adding the functionality of ActiveX control to your code written with Visual Basic.
- No knowledge of MEWTOCOL (Matsushita's PLC communication protocol) needed.

Setup Process

Statistical (Instanta) Testistical (Instanta) Testistical (Instanta) Statistical (Inst	Finance plaque In Communit dans l'entrep	Immunit from a first of a start of a st	
Initial Setup in Visual Basic	Configuration of Communication	Register of Various Communication Types	Programming

PCWAY

Add-on software for Excel to monitor and change PLC data.

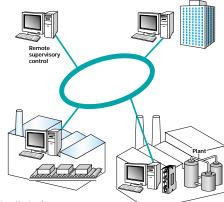
- The Excel add-in software PCWAY is available for data collection of the networked PLCs. The contents of the PLC bits and data registers can be simply shown and managed on Excel worksheets.
- Settings in PCWAY can be used to switch display contents and character colour corresponding to contact on/off status and register values, and perform calculations based on register values. Excel macros are not necessary.



MEWTOCOL OPC Server

The connection between PLC and SCADA software.

- Provides a standard interface between our FP Series PLCs and various SCADA/HMI software* used to build a monitoring system compliant with commercially available OPC clients. It is also possible to use OPC automation interface to link our FP series PLCs with Visual Basic.
- OPC (OLE for Process Control) is an interface standard for linking software with various companies' control devices. This standard allows connections between OPC-compliant products.



* We have confirmed linking with iFIX Ver.2.6 (Intellution),

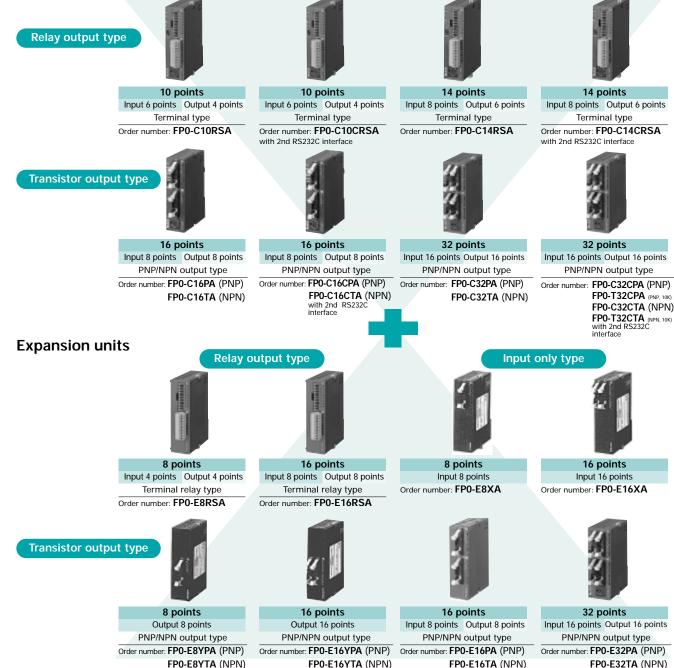
InTouch Ver.7.0 (Wonderware), and RSView32 Ver.6.3 (Rockwell Software).



FP0 Control and Expansion Units

Products and order numbers

Control units



Notes:

- A power cable (order number AFP0581) is enclosed with the control unit and the relay output type upgrade units (Transistor output type upgrade units do not require a power cable).
- Two Phoenix terminals (9-pin) are needed with the relay output type terminal type. A 2.5mm width screwdriver is needed for the wiring. Have ready a dedicated terminal screwdriver (order number AFP0806: Phoenix order number SZS0, 4 X 2.5 compatible), or equivalent.
- A loose-wiring pressure socket and contact (2 pins with order numbers FP0-C16T/P, E16T/P, and 4 pins with order numbers FP0-C32T/P, E32T/P) are needed with the transistor output type. A loose-wiring connector pressure contact tool (order number AXY52000) is needed for the wiring.



FP0 Analogue and Networking Units

8 points

Input 8 points

Terminal type

Order number: FP0-A80A

Products and order numbers

Analogue units



3 points Input 2 points Output 1 points Terminal type Order number: FP0-A21A

Temperature control units



4 points Input 4 points Terminal type Order number: FP0-TC4

Networking units



PROFIBUS PROFIBUS DP-Slave or Remote I/O Order number: FP0-DPS2

AC power supply



Input Output 85 to 265VAC 24V DC/0.7A Terminal type Order number: FP0-PSA2



8 points

Input 8 points

Terminal type

Order number: FP0-TC8

MEWNET-F MEWNET-F Slave Order number: FP0-IOL



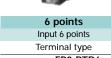
4 points Output 4 points Terminal type Order number: FP0-A04V



Input 6 points Terminal type



4 points Output 4 points Terminal type Order number: FP0-A04I



Order number: FP0-RTD6



S-LINK CPU S-LINK Master Order number: FP0-SL1

FP Memory Loader



FP Programmer Ver. 2 Order number: AFP1114V2



Output 24VDC/2.1A Input 85 to 265VAC Terminal type Order number: FP-PS24-050E

Read or write programs from or to a PLC

Order number: AFP8670

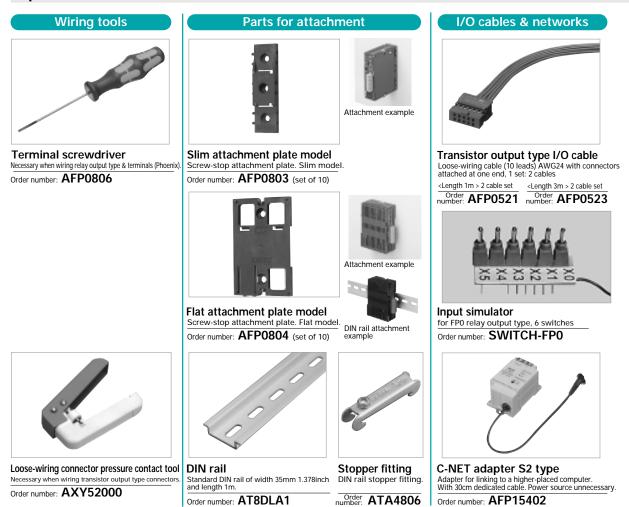




Accessories

Products and order numbers

Options



Notes: (1) One I/O cable set (2 cables) is necessary with the following models: FP0-C10RS, C14RS, E8RS, E16RS. (2) One I/O cable set (2 cables) is necessary with the following models: FP0-C16T/C16P, E16T/E16P. (3) Two I/O cable sets (total 4 cables) are necessary with the following models: FP0-C32T/C32P, E32T/E32P.

Additional parts



Terminal socket Attaches to relay output terminal type Additional part. Order number: AFP0802(2 sockets)



Loose-wiring pressure socket Transistor output type connectors. Additional part. Order number: AFP0807(2 sockets)



Power cable Attaches to control units and relay output type expansion units. Length: 1m. Order number: **AFP0581(**1 cable) per pack)



Programming Tools and Current Consumption List

Products and order numbers

Programming software and cables

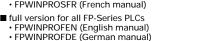


Control FPWIN Pro

English, German, French, Italian, Spanish, Japanese menu selectable. According to IEC 61131-3 Standard

Order number:

- small version for MINI-PLC only (FP0, FP-e, FPM, FP1, FP∑ (Sigma)
- FPWINPROSEN (English manual)
 FPWINPROSDE (German manual)
- FPWINPROSFR (French manual)



• FPWINPROFFR (French manual)

■ full version for all FP-Series PLCs:

• FPWINGR F2 (English manual)

Control FPWIN GR English, Italian, Spanish,

menu selectable

Order number:



Other Software Tools

PCWAY



AFW10011 (Software + Printer port dongle) AFW10031 (Software + USB port dongle)



Control CommX

Order number: AFW20011 (Software + Printer port dongle) AFW20031 (Software + USB port dongle)



Programming cable for use with FP Programmers

Order number: AFC8523

D-SUB15-pin, mini-DIN 5-pin

Programming cable PC (D-SUB 9-pin) to the PLC

Order number: AFC8513

(mini-DIN 5-pin)

MEWTOCOL **OPC Server**

Order number: AFPS01510 (1 license) AFPS01515 (5 licenses) AFPS01516 (10 licenses)

Current consumption list

Type of unit	Part number	Current Consumption		
Type of unit	raithumber	Supply to the power supply connector of the control unit $^{\star 1}$	Supply to the power supply connector of the expansion and intelligent units $\ensuremath{^{\ast}2}$	
Control unit	C10 series, C14 series	100mA or less	_	
	C16 series	40mA or less	—	
	C32 series, T32 series	60mA or less	—	
	SL1	150mA or less	_	
	E8X	10mA or less	_	
	E8YRS	10mA or less	100mA or less	
	E8YT, E8YP	15mA or less	_	
Europeire unit	E8R	20mA or less	50mA or less	
Expansion unit	E16R	20mA or less	100mA or less	
	E16X	20mA or less	_	
	E16T, E16P, E16YT, E16YP	25mA or less	_	
	E32T, E32P	40mA or less	_	
Intelligent unit	A21	20mA or less	100mA or less	
	A80	20mA or less	60mA or less	
	A04V	20mA or less	100mA or less	
	A04I	20mA or less	130mA or less	
	IOL	30mA or less	40mA or less	
	TC4, TC8, RTD6	25mA	_	
PROFIBUS unit	FP0-DPS2	10mA or less	100mA or less	
FP programmer	AFP1114V2	50mA or less	_	
C-NET adapter	AFP15402	50mA or less	_	

Notes)

*1 The current consumption from the power supply connector block of the control unit. Calculate the total current consumption based on the combination of the units *2 The current consumption from the power supply connector block of the expansion unit and intelligent unit.



FP0 Series

Power Supplies

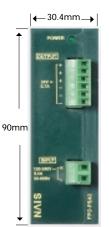
Features

Incredibly small size:

- FP0 power supply: 90 x 60 x 30.4mm
- FP power supply: 115 x 75 x 42mm

Maximum output current:

- FP0 power supply: 0.7A (24VDC)
- FP power supply: 2.1A (24VDC)



FP0 Power supply FP0-PSA2



FP Power supply FP-PS24-050 E

NOTE:

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Mounting distance between the FP0 power supply and the FP0 CPU is needed to permit heat radiation for the FP0-CPU
 For side mounting, 2 additional blue clips are needed: order part-no. 677-021-17101 (1pce.) for FP0-PSA2

3) Mounting distance between the power supply FP-PS24-050E and other devices is needed for cooling / heat radiation.

- Multiple voltage input: 85 to 265VAC
- Optimal protection: overvoltage, overcurrent, overheating, etc.
- Global approvals (UL/cUL, EN, CE-marking)

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DIN-rail mounting (FP0 power supply also side mounting)

Performance specifications

Order number:	FP0-PSA2	FP-PS24-050E	
Primary side:			
Rated operating voltage	115/230VAC		
Operating voltage range	85 to 265VAC		
Rated operating frequency	50 / 60Hz		
Operating frequency range	40 to 70Hz		
Inrush current	< 50A at 55°C	< 50A at 25°C/< 70A at 55°C	
Current consumption	145mA (at 230VAC and 0.7A output current)	400mA (at 230VAC and 2.1A output current)	
Over voltage protection	PROTECTED		
Secondary side:			
Rated output voltage	24VDC		
Output voltage range	23.5V to 24.5VDC		
Nominal output current	0.7A	2.1A	
Output current range	0 to 0.7A	0 to 2.1A	
Output ripple	< 60mV _{pp}	< 240mV _{pp}	
Short circuit protected	electronic, automatic restart mode	continuous	
Over voltage protected	Yes		
Over load protected	Yes (switch off at approx. 0.8A and more)	Yes (switch off at approx. 3.5A and more)	
Holding time	min. 20ms at 230VAC	min. 110ms at 230VAC	
Power OK signal	– Yes		

General specifications

Ambient temperature	0°C to +55°C		
Storage temperature	-20 °C to +70 °C		
Ambient humidity	5 to 95% non-condensing		
Storage humidity	5 to 95% non-condensing		
Vibration resistance	10 to 55Hz, 1 cycle/min.: double amplitude of 0.75mm, 10 min. on 3 axes		
Shock resistance	10g min., 4 times on 3 axes		
Life time min.	7 years at nom. load, 25°C ambient temperature, 20000 h at 55°C with full load/continuous operation		
Mounting	DIN rail or FP0 flat attachement plate	DIN rail	
Size	90 x 60 x 30.4mm 115 x 75 x 42mm		
Input connection AC side	MC connector, 2 pin 2 pin		
Output connection DC side	MC connector, 6 pin, 3 pin for "+" and 3 pin for "-" 5 pin, 2 pin for "+" and 2 pin for "-"; 1 pin Powe		
Status display	LED (green) at the front side for the secondary voltage indication		

Standards

EMC	EN 50082-2, EN50082-1, EN 50081-2, EN 50081-1	EN 55011/B, EN 55022/B, EN 61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-11	
LVD	EN 60950, EN 50178 (overvoltage category 3)	EN 60950, EN 50178 (overvoltage category 2)	
Others	UL Recognized according to UL 508, UL 1950, cUL Recognized according to CAN/CSA-C22.2 No. 950.95		
Protection	IP30	IP20 outside/IP67 inside	

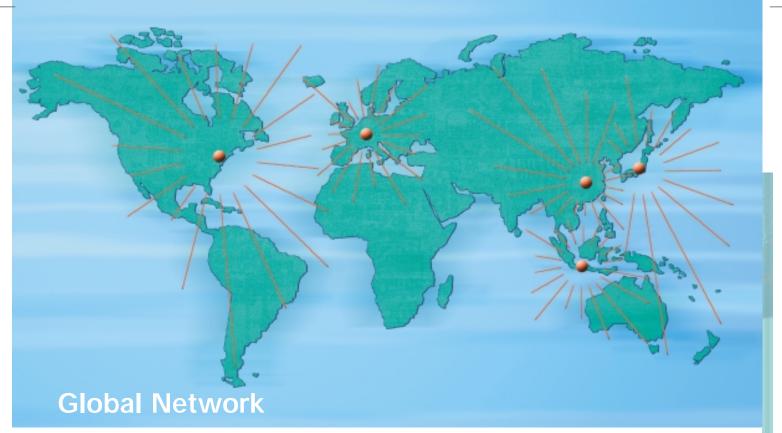
FP0 Product Overview

Order numbers

Product Name	Part Number
P0-C10RS, 6 Inputs / 4 Outputs (p+n / Relay)	FP0-C10RSA
P0-C10CRS, 6 Inputs / 4 Outputs (p+n / Relay), RS232 COM-Port Interface	FP0-C10CRSA
P0-C14RS, 8 Inputs / 6 Outputs (p+n / Relay)	FP0-C14RSA
P0-C14CRS, 8 Inputs / 6 Outputs (p+n / Relay), RS232 COM-Port Interface	FP0-C14CRSA
P0-C16P, 8 Inputs / 8 Outputs (p+n / Transistor PNP)	FP0-C16PA
P0-C16CP, 8 Inputs / 8 Outputs (p+n / Transistor PNP), RS232 COM-Port Interface	FP0-C16CPA
P0-C32P, 16 Inputs / 16 Outputs (p+n / Transistor PNP)	FP0-C32PA
P0-C32CP, 16 Inputs / 16 Outputs (p+n / Transistor PNP), RS232 COM-Port Interface	FP0-C32CPA
P0-C16T, 8 Inputs / 8 Outputs (p+n / Transistor NPN)	FP0-C16TA
P0-C16CT, 8 Inputs / 8 Outputs (p+n / Transistor NPN), RS232 COM-Port Interface	FP0-C16CTA
P0-C32T, 16 Inputs / 16 Outputs (p+n / Transistor NPN)	FP0-C32TA
P0-C32CT, 16 Inputs / 16 Outputs (p+n / Transistor NPN), RS232 COM-Port Interface	FP0-C32CTA
P0-T32CP, 16 Inputs / 16 Outputs (p+n / Transistor PNP), RS232 COM-Port Interface, 10 000 steps Program memory	FP0-T32CPA
P0-T32CT, 16 Inputs / 16 Outputs (p+n / Transistor NPN), RS232 COM-Port Interface, 10 000 steps Program memory	FP0-T32CTA
P0-SL1. S-LINK CPU, Master	FP0-SL1
. Expansion Units	110021
roduct Name	Part Number
P0-E8RS, 4 Inputs / 4 Outputs (p+n / Relay)	FP0-E8RSA
PO-E8X, 8 Inputs (p+n)	FP0-E8XA
PO-E8YP, 8 Outputs (Transistor PNP)	FP0-E8YPA
P0-E8YT, 8 Outputs (Transistor NPN)	FP0-E8YTA
P0-E16RS, 8 Inputs / 8 Outputs (p+n / Relay)	FP0-E16RSA
P0-E16P, 8 Inputs / 8 Outputs (p+n / Transistor PNP)	FP0-E16PA
P0-E16T, 8 Inputs / 8 Outputs (p+n / Transistor NPN)	FP0-E16TA
PO-E16X, 16 Inputs (p+n)	FP0-E16XA
P0-E16YP, 16 Outputs (Transistor PNP)	FP0-E16YPA
P0-E16YT, 16 Outputs (Transistor NPN)	FP0-E16YTA
P0-E32P, 16 Inputs / 16 Outputs (p+n / Transistor PNP)	FP0-E32PA
P0-E32T, 16 Inputs / 16 Outputs (p+n / Transistor NPN)	FP0-E32TA
P0-A21, 2 analogue inputs / 1 analogue output	FP0-A21A
P0-A80, 8 analogue inputs	FP0-A80A
P0-TC4, 4 thermocouple inputs	FP0-TC4
P0-TC8, 8 thermocouple inputs	FP0-TC8
P0-RTD6, 6 RTD Inputs, Pt 100, Pt 1000, Ni 1000	FP0-RTD6
. AC Power Supply	
Product Name	
	Part Number
P0-AC Power Supply 24VDC / 0.7A	FP0-PSA2
P0-AC Power Supply 24VDC / 0.7A	
P0-AC Power Supply 24VDC / 0.7A . Network	
P0-AC Power Supply 24VDC / 0.7A . Network roduct Name	FP0-PSA2
P0-AC Power Supply 24VDC / 0.7A . Network Product Name P0-DPS2, PROFIBUS DP Slave or Remote I/O unit	FP0-PSA2 Part Number
P0-AC Power Supply 24VDC / 0.7A . Network Product Name P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-IOL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master	FP0-PSA2 Part Number FP0-DPS2
P0-AC Power Supply 24VDC / 0.7A . Network Product Name P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-IOL, MEWNET-F Slave unit, I/O link P0-IOL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter)	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402
P0-AC Power Supply 24VDC / 0.7A . Network Product Name P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-IOL, MEWNET-F Slave unit, I/O link P0-IOL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter)	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1
P0-AC Power Supply 24VDC / 0.7A . Network Product Name P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-IOL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (RS232/422 PORS485 Interface adapter), 230VAC	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402
P0-AC Power Supply 24VDC / 0.7A . Network Product Name P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-DQL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (RS232/422 PORS485 Interface adapter), 230VAC . Programming Tools	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP8536
P0-AC Power Supply 24VDC / 0.7A . Network Product Name P0-DS2, PROFIBUS DP Slave or Remote I/O unit P0-DL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Multi drop network slave adapter) -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC . Programming Tools Product Name	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP15402 AFP8536 Part Number
P0-AC Power Supply 24VDC / 0.7A . Network Product Name P0-DS2, PROFIBUS DP Slave or Remote I/O unit P0-DQ, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Multi drop network slave adapter) -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC . Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP8536 Part Number FPWIN PRO S EN
P0-AC Power Supply 24VDC / 0.7A . Network PoDeS2, PROFIBUS DP Slave or Remote I/O unit P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-DL, MEVNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET 52 Adapter (Multi drop network slave adapter) -NET 52 Adapter (Multi drop network slave adapter) -NET 52 Adapter (Multi drop network slave adapter) -NET Adapter (Russian State adapter), 230VAC - Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual AIS Control FPWIN Pro Programming software fra IFP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP8536 Part Number FPWIN PRO S EN FPWIN PRO F EN
P0-AC Power Supply 24VDC / 0.7A . Network P0-AC Power Supply 24VDC / 0.7A . Network P0-DDS2, PROFIBUS DP Slave or Remote I/O unit P0-DDS2, PROFIBUS DP Slave or Remote I/O unit P0-DL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC . Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN GR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP8536 Part Number FPWIN PRO S EN FPWIN PRO F EN FPWIN QR F EN
P0-AC Power Supply 24VDC / 0.7A . Network P0-AC Power Supply 24VDC / 0.7A . Network P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-OL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC -NET Adapter (PS232/422 PORS485 Interface adapter), 230VAC -NET Adapter (RS232/422 PORS485 Interface adapter) -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC -NET Adapter (RS232/422 PORS485 Interface RC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual Als Control FPVIN GR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual andheld programmer for FP0 and all other FP programmable controllers	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP8536 Part Number FPWIN PR0 S EN FPWIN PR0 F EN FPWIN QR F EN AFP1114V2
P0-AC Power Supply 24VDC / 0.7A . Network Product Name P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-IOL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Multi drop network slave adapter) -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC . Programming Tools Product Name IAIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual IAIS Control FPWIN GR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual andheld programmer for FP0 and all other FP programmable controllers P0-Programming cable PC <> TOOL-Port (SUB-DMiniDINS), 3m	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP8536 Part Number FPWIN PR0 S EN FPWIN PR0 F EN FPWIN GR F EN AFP1114/V2 AFC8513
P0-AC Power Supply 24VDC / 0.7A . Network P0-DC 2000 P0-DS2, PROFIBUS DP Slave or Remote I/O unit P0-DS2, PROFIBUS DP Slave or Remote I/O unit P0-DL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Multi drop network slave adapter) -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC . Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN GR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN GR Programming software for all other FP programmable controllers P0-Programming cable PC <> TOOL-Port (SUB-D15/MiniDIN5), 3m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP8536 Part Number FPWIN PR0 S EN FPWIN PR0 F EN FPWIN QR F EN AFP1114V2 AFC8513 AFC8521
PPO-AC Power Supply 24VDC / 0.7A . Network Product Name PO-DPS2, PROFIBUS DP Slave or Remote I/O unit PO-IOL, MEWNET-F Slave unit, I/O link PO-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Rs232/422 PORS485 Interface adapter), 230VAC . Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN RR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN RR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN RR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIAB Control FPWIN RR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIAB Control FPWIN RR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIAB Control FPWIN RR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIAB Control FPWIN RR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIAB Control FPWIN RR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIAB CONTO FPWIN RR Programming software for all Other FP programmable controllers PO-Programming cable PC <> TOOL-Port (SUB-DMiniDINS), 3m PO-Programming cable PL andheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP8536 Part Number FPWIN PR0 S EN FPWIN PR0 F EN FPWIN GR F EN AFP1114/V2 AFC8513
P0-AC Power Supply 24VDC / 0.7A . Network P0-DCP Supply 24VDC / 0.7A . Network P0-DS2, PROFIBUS DP Slave or Remote I/O unit P0-DS2, PROFIBUS DP Slave or Remote I/O unit P0-DL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Multi drop network slave adapter) -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC . Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN RP rogramming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN RC Programming software for all PI-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual andheld programmer for FP0 and all other FP programmable controllers P0-Programming cable Handheld programmer <-> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <-> TOOL-Port (SUB-D15/MiniDIN5), 3m	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP8536 Part Number FPWIN PR0 S EN FPWIN PR0 F EN FPWIN QR F EN AFP1114V2 AFC8513 AFC8521
P0-AC Power Supply 24VDC / 0.7A Network PoOLOC Name P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-DQL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Multi drop network slave adapter) -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN Rro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN Rro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual andheld programmer for FP0 and all other FP programmable controllers PO-Programming cable Handheld programmer <-> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <-> TOOL-Port (SUB-D15/MiniDIN5), 3m . Additional Parts	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP536 Part Number FPWIN PROS EN FPWIN PROF EN FPWIN ROF EN AFP1114V2 AFC8513 AFC8521 AFC8523
P0-AC Power Supply 24VDC / 0.7A . Network P0-DCPS2, PROFIBUS DP Slave or Remote I/O unit P0-DDS2, PROFIBUS DP Slave or Remote I/O unit P0-DDS2, PROFIBUS DP Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET 52 Adapter (Multi drop network slave adapter) -NET 52 Adapter (PP -NET FP -NET F	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP8536 Part Number FPWIN PRO S EN FPWIN PRO F EN FPWIN PRO F EN FPWIN GR F EN AFP1114V2 AFC8513 AFC8521 AFC8523 Part Number
P0-AC Power Supply 24VDC / 0.7A . Network P0-AC Power Supply 24VDC / 0.7A . Network P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-LOL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, MasterNET 52 Adapter (Multi drop network slave adapter)NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC . Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual andheld programmer for FP0 and all other FP programmable controllers P0-Programming cable PC <-> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <-> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <-> TOOL-Port (SUB-D15/MiniDIN5), 3m . Additional Parts roduct Name ansistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 1m	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP8536 Part Number FPWIN PRO S EN FPWIN PRO F EN FPWIN PRO F EN AFP1114V2 AFC8513 AFC8521 AFC8523 Part Number
P0-AC Power Supply 24VDC / 0.7A . Network Product Name P0-DP32, PROFIBUS DP Slave or Remote I/O unit P0-IOL, MEWNET-F Slave unit, I/O link P0-IOL, MEWNET-F Slave unit, I/O link P0-SL1, S-LI/INK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (RS232/422 PORS485 Interface adapter), 230VAC . Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual IAIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN RR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual andheld programmer for FP0 and all other FP programmable controllers P0-Programming cable PC <> TOOL-Port (SUB-DI5/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 3m . Additional Parts Product Name ansistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 1m ansistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 3m	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP15402 AFP0536 Part Number FPWIN PRO S EN FPWIN PRO S EN FPWIN PRO F EN AFP1114/2 AFC8513 AFC8521 AFC8523 Part Number AFP0521 AFP0523
PPO-AC Power Supply 24VDC / 0.7A . Network Product Name PO-DPS2, PROFIBUS DP Slave or Remote I/O unit PO-IOL, MEWNET-F Slave unit, I/O link PO-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (RS232/422 PORS485 Interface adapter), 230VAC . Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FPM including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN RG Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN RG Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN RG Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIA Control FPWIN RG Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIA Exported FPWIN GR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual PO-Programming cable Handheld programmer <-> TOOL-Port (SUB-D15/MiniDIN5), 3m PO-Programming cable Handheld programmer <-> TOOL-Port (SUB-D15/MiniDIN5), 1m PO-Programming cable Handheld programmer <-> TOOL-Port (SUB-D15/MiniDIN5), 3m . Additional Parts Product Name Tansistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 1m Tansistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 3m ower cable, 1m, 1 cable per pack	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP114V2 AFP1114V2 AFC8513 AFC8521 AFC8521 AFC8523 Part Number AF0521 AFP0521 AFP0523 AFP0581
P0-AC Power Supply 24VDC / 0.7A Network PoOLC Name P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-DQL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET 52 Adapter (Multi drop network slave adapter) -NET 52 Adapter (Multi drop network slave adapter) -NET 52 Adapter (Multi drop network slave adapter) -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN Rro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN Rro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual andheld programmer for FP0 and all other FP programmable controllers P0-Programming cable PC <>> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <>> TOOL-Port (SUB-D15/MiniDIN5), 3m . Additional Parts Product Name ansistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 1m ransistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 3m ower cable, 1m, 1 cable per pack lim attachment plate model (set of 10)	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP15402 AFP536 Part Number FPWIN PRO S EN FPWIN PRO F EN FPWIN GR F EN AFC8513 AFC8513 AFC8521 AFC8523 Part Number AFC9521 AFC9521 AFC9521 AFP0521 AFP0521 AFP0521 AFP0521 AFP0521 AFP0581 AFP0581 AFP0581 AFP0581 AFP0581 AFP0581 AFP0581
P0-AC Power Supply 24VDC / 0.7A Network PoDeDS2, PROFIBUS DP Slave or Remote I/O unit P0-D0L, MEWNET-F Slave unit, I/O link P0-OL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Multi drop network slave adapter) -NET Adapter (RS232/422 PORS485 Interface adapter), 230VAC Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual andheld programmer for FP0 and all other FP programmable controllers P0-Programming cable PC <> TOOL-Port (SUB-D1/MiniDIN5), 3m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 3m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 3m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 3m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 3m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 3m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 3m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld pro	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP536 Part Number FPWIN PRO S EN FPWIN PRO F EN FPWIN PRO F EN AFC8513 AFC8521 AFC8523 Part Number AFP0521 AFP0581 AFP0581 AFP0581 AFP0581 AFP0581 AFP0581 AFP0803 AFP0804
P0-AC Power Supply 24VDC / 0.7A Network Product Name P0-DPS2, PROFIBUS DP Slave or Remote I/O unit P0-IOL, MEWNET-F Slave unit, I/O link P0-SL1, S-LINK CPU, Master NET S2 Adapter (Multi drop network slave adapter) NET S2 Adapter (Multi drop network slave adapter), 230VAC Product Name IAIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual IAIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual IAIS Control FPWIN GR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual IAIS Control FPWIN GR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual IAIS Control FPWIN GR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual IAIS Control FPWIN GR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual Iandheld programmer for FP0 and all other FP programmable controllers P0-Programming cable PC <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 3m Product Name ransistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 1m ransistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 3m ower cable, 1m, 1 cable per pack Iim attachment plate model (set of 10) atta attachment plate model (set of 10) erminal socket (2 sockets per pack)	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-IOL FP0-SL1 AFP15402 AFP15402 AFP0536 Part Number FPWIN PRO S EN FPWIN PRO S EN FPWIN PRO F EN FPWIN GR F EN AFP1114/2 AFC8513 AFC8521 AFC8523 Part Number AFP0521 AFP0523 AFP0581 AFP0803 AFP0804 AFP0802
P0-AC Power Supply 24VDC / 0.7A Network Noduct Name P0-DP32, PROFIBUS DP Slave or Remote I/O unit P0-DI-U, IEWNETF F Slave unit, I/O link P0-SL1, S-LINK CPU, Master NET 52 Adapter (Multi drop network slave adapter) NET Adapter (R5232/422 PORS485 Interface adapter), 230VAC Programming Tools Product Name AIS Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual AIS Control FPWIN GR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual andheld programmer for FP0 and all other FP programmable controllers P0-Programming cable Handheld programmer <>> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <>> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <>> TOOL-Port (SUB-D15/MiniDIN5), 3m Additional Parts Product Name ansistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 1m ransistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 3m ower cable, 1m, 1 cable per pack Iim attachment plate model (set of 10) Iat attachment plate model (set of 10) accenter in pressure socket (2 sockets per pack)	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-IOL FP0-SL1 AFP15402 AFP15402 AFP8536 Part Number FPWIN PRO S EN FPWIN PRO S EN FPWIN PRO F EN AFP1114/2 AFC8513 AFC8521 AFC8523 Part Number PAC8523 AFP0521 AFP0523 AFP0803 AFP0804 AFP0802 AFP0807
P0-AC Power Supply 24VDC / 0.7A . Network roduct Name P0-DP32, PROFIBUS DP Slave or Remote I/O unit P0-DS2, PROFIBUS DP Slave or Remote I/O unit P0-IOL, MEWNETF Slave unit, I/O link P0-SL1, S-LINK CPU, Master -NET S2 Adapter (Multi drop network slave adapter) -NET S2 Adapter (Multi drop network slave adapter), 230VAC . Programming Tools roduct Name Ais Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual Ais Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP.M, FP2/2SH, FP3, FP10SH) including English manual Ais Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP.M, FP2/2SH, FP3, FP10SH) including English manual andheld programmer for FP0 and all other FP programmable controllers P0-Programming cable PC <> TOOL-Port (SUB-DJ5/MiniDINS), 3m P0-Programming cable Handheld programmer <>> TOOL-Port (SUB-D15/MiniDINS), 3m . Additional Parts roduct Name ansistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 1m ansistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 3m ower cable, 1m, 1 cable per pack lim attachment plate model (set of 10) at attachment plate model (set of 10) att	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-SL1 AFP15402 AFP15402 AFP536 Part Number FPWIN PROS EN FPWIN PROS EN FPWIN PROF EN FPWIN GR F EN AFP1114V2 AFC8513 AFC8521 AFC8523 Part Number AFD521 AFP0521 AFP0523 AFP0581 AFP0802 AFP0802 AFP0807 AXY52000
P0-AC Power Supply 24VDC / 0.7A Network PoOLC, Network PoOLD, MEWNETF Slave or Remote I/O unit PO-IOL, MEWNETF Slave unit, I/O link PO-SL1, S-LINK CPU, Master NET S2 Adapter (Multi drop network slave adapter) NET S2 Adapter (Multi drop network slave adapter), 230VAC Programming Tools Product Name Als Control FPWIN Pro Programming software FP 0/FP-e/FP 1/FP M including English manual Als Control FPWIN Pro Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual Als Control FPWIN RR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual Als Control FPWIN GR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual Als Control FPWIN GR Programming software for all FP-series PLC (FP0, FP1, FP-M, FP2/2SH, FP3, FP10SH) including English manual andheld programmer for FP0 and all other FP programmable controllers P0-Programming cable PC <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 1m P0-Programming cable Handheld programmer <> TOOL-Port (SUB-D15/MiniDIN5), 3m Additional Parts Product Name ransistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 1m ransistor output type I/O cable, Loose-wiring cable (10 leads), 1 set: 2 cables, 3m ower cable, 1m, 1 cable per pack lim attachment plate model (set of 10) arminal socket (2 sockets per pack)	FP0-PSA2 Part Number FP0-DPS2 FP0-IOL FP0-IOL FP0-SL1 AFP15402 AFP15402 AFP8536 Part Number FPWIN PRO S EN FPWIN PRO S EN FPWIN PRO F EN AFP1114/2 AFC8513 AFC8521 AFC8523 Part Number PAC8523 AFP0521 AFP0523 AFP0803 AFP0804 AFP0802 AFP0807

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North America	Europe	Asia Pacific	China	Japan
Aromat Corporation	Matsushita Electric Works (Europe) AG	Matsushita Electric Works (Asia Pacific) Pte. Ltd.	Matsushita Electric Works (China) Co., Ltd.	Matsushita Electric Works, Ltd. <i>Global Headquarter</i>

Matsushita Electric Works

