Panasonic

AFP0HC32EP | FP0H



Product Number	AFP0HC32EP
Part Number	AFP0HC32EP
Product	FP0H Control unit
Product name	FP0H

%Photo may vary from actual product.

Spec Detail

Specifications and design of the products are subject to change without notice for the product improvement.

As of May 29, 2021

Item	Specifications			
Product Number	AFP0HC32EP			
Part Number	AFP0HC32EP			
[[Control specifications]]Number of controllable I/O points	32 points (Input: 16, Output: 16	8), When expanded: Max. 384 points		
[[Control specifications]]Programming method / Control method	Relay symbol / Cyclic operatior	n		
[[Control specifications]]Program memory	Built-in flash ROM (no backup battery required)			
[[Control specifications]]Number of instructions : Basic instructions	120 types approx.			
[[Control specifications]]Number of instructions : High-level instructions	270 types approx.			
[[Control specifications]]Program	used in the data register (DT) is	changed, the number of words that can be		
capacity	32k steps(initial value)32,740k steps24,5	533 words 765 words(initial value) 573 words 285 words		
[[Control specifications]]Operation speed	µs/step approx. (10 k steps and Basic instruction (ST) : 40 ns/st approx. (10 k steps and later)	tep approx. (Up to 10 k steps) ,0.65 µs/step : 0.14 µs/step approx. (Up to 10 k steps) ,		
[[Control specifications]]Base scan time I/O refresh and base time	Control unit: 100 µs or less app refresh time (Note) Note : Refresh times for FP0 / f 8 points unit : Number of units× 16 points unit : Number of units 32 points unit : Number of units 64 points unit : Number of units	<0.8ms s×1.0ms s×1.3ms		
[[Control specifications]]Operation memory : Relay : External input (X)	1, 760 points (X0 to X109F)(No Note 1 : The number of points t combination of hardware. Note 2 : Some specifications an	that can be used depends on the		
[[Control specifications]]Operation memory : Relay : External output (Y)	1, 760 points (X0 to X109F)(No Note 1 : The number of points t combination of hardware. Note 2 : Some specifications ar	that can be used depends on the		
[[Control specifications]]Operation memory : Relay : Internal relay (R)	8,192 points (R0 to R511F) (No Note 1 : Some specifications ar			

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[[Control specifications]]Operation memory : Relay : Special internal relay (R)	800 points (R9000 to R951F)
[[Control specifications]]Operation memory : Relay : Timer / Counter (T / C)	1,024 points (initial setting, timer: 1,008 points, counter: 16 points)(Note) Note : An auxiliary timer instruction (F137) can be used to add the number of points.
[[Control specifications]]Operation memory : Relay : Link relay (L)	2,048 points (L0 to L127F)
[[Control specifications]]Operation memory : Memory area : Data register (DT)	12,285 words or 24,573 words or 32,765 words or 65,533 words(Note) Note : System register No. 0 (program capacity) can be configured to select the capacity of the data register (DT).
[[Control specifications]]Operation memory : Memory area : Special data register (DT)	1,000 words (DT90000 to DT90999)(Note) Note : Some specifications are compatible with FPΣ.
[[Control specifications]]Operation memory : Memory area : Link data register (LD)	256 words (LD0 to LD255)
[[Control specifications]]Operation memory : Memory area : Index register (I)	14 words (I0 to ID)
[[Control specifications]]Differential points	Points for the program capacity
[[Control specifications]]Number of master control relay (MCR)	256 points
[[Control specifications]]Number of labels (JP and LOOP)	256 points
[[Control specifications]]Number of step ladders	1,000 stages
[[Control specifications]]Number of subroutines	500 subroutines
[[Control specifications]]Number of interrupt program	9 programs •Input: 8 programs (INT0 to INT7) •Periodic: 1 program (INT24)
[[Control specifications]]Sampling trace	Available(Note) [Sampling by commands / Sampling at regular time intervals (For one sampling: 16 bits + 3 words), 1,000 samples] Note : Logging trace and sampling trace cannot be used at the same time.
[[Control specifications]]Comment storage	I/O comments, remarks and block comments can be stored. (no backup battery required, 1 M byte)
[[Control specifications]]PLC link function (Serial communication)	Max. 16 units, link relays: 1,024 points, link registers: 128 words. (Data transfer and remote programming are not supported)
[[Control specifications]]Constant scan	Available (0 to 600 ms)
[[Control specifications]]Password	Available (32 digits)
[[Control specifications]]Program upload protection	Available
[[Control specifications]]Program protect function	Available
[[Control specifications]]Self- diagnosis function	Watchdog timer, program syntax check, etc.
[[Control specifications]]Program edition during RUN	Available
[[Control specifications]]SD memory card function	SD memory card project copy, SD memory card access instruction, Logging trace function (Note) Note : Logging trace and sampling trace cannot be used at the same time.
[[Control specifications]]Memory transfer	Available [Built-in memory (ROM ⇔ RAM)]
[[Control specifications]]High speed counter : Main unit input	Single-phase 4 channels (Max. 100 kHz each input) or 2-phase 2 channels (Max. 50 kHz each input)(Note) Note : The specifications are based on the rated input voltage of 24 V DC at +25 °C +77 °F. The maximum operation frequency may be lower depending on the applied voltage, ambient temperature, and conditions of

depending on the applied voltage, ambient temperature, and conditions of

AFPUHC32EP	USE. The maximum operation frequency varies depending on how the unit is used.
[[Control specifications]]Pulse output : Main unit output	4 channels (Max. 100 kHz each axis)(Note) Note : The specifications are based on the rated input voltage of 24 V DC at +25 °C +77 °F. The maximum operation frequency may be lower depending on the applied voltage, ambient temperature, and conditions of use. The maximum operation frequency varies depending on how the unit is used.
[[Control specifications]]PWM output : Main unit output	4 channels (1 Hz to 70 kHz: 1,000 resolution / 70.001 kHz to 100 kHz: 100 resolution(Note) Note : The specifications are based on the rated input voltage of 24 V DC at +25 °C +77 °F. The maximum operation frequency may be lower depending on the applied voltage, ambient temperature, and conditions of use. The maximum operation frequency varies depending on how the unit is used.
[[Control specifications]]Pulse catch input Interrupt input	Total 8 points (with high speed counter)
[[Control specifications]]Periodical interrupt	0.1 ms to 30 sec.
[[Control specifications]]Potentiometer (Volume) input	Not available
[[Control specifications]]Clock / calendar	Year (last two digits), month, day, hour (24-hour display), minute, second and day of week(Note 1, 2) Note 1 : Accuracy of the clock / calendar (within \pm 90 seconds per month at +25 °C +77 °F).If an error of the clock / calendar becomes a problem in the system, set an accurate time periodically. Note 2 : If the battery is not attached, calendar information is cleared when the power is turned off. It will be necessary to set the date when the power is turned on.
[[Control specifications]]Memory backup : Backup by instruction P13	Data register: all area(Note) Note : Data can be rewritten up to 10,000 times. Hold / non-hold areas can be specified in the system registers.
[[Control specifications]]Memory backup : Auto-backup at power failure	Counter: 16 points Internal relay: 128 points Data register: 315 words Note : Data can be rewritten up to 10,000 times. Hold / non-hold areas can be specified in the system registers.
[[Control specifications]]Battery backup (only when a battery is installed)	Hold areas or non-hold areas can be specified by setting the system registers No.6 to No. 13. (It is also possible to make the setting for hold all points.)
[[Control specifications]]Battery life	5 years or more under a production condition (operates for 8 hours per day)
[[General specifications]]CE marking directive compliance	EMC Directive, RoHS Directive
[[General specifications]]Rated voltage	24 V DC
[[General specifications]]Operating voltage range	20.4 to 28.8 V DC
[[General specifications]]Current consumption	170 mA or less
[[General specifications]]Allowed momentary power off time	4 ms (at 20.4 V DC), 10 ms (24 V DC or higher)
[[General specifications]]Operating temperature	0 to +55 °C +32 to +131 °F, At storage: -40 to +70 °C - 40 to +158 °F
[[General specifications]]Operating humidity	10 to 95 % RH (at +25 $^\circ$ C +77 $^\circ$ F, no dew condensation allowed), At storage: 10 to 95 % RH (at +25 $^\circ$ C +77 $^\circ$ F, no dew condensation allowed)
[[General specifications]]Withstand voltage	(Detection current: 5 mA) 500 V AC for 1 minute Input and output terminals ⇔ power and functional ground terminals Input terminals ⇔ Output terminals
[[General specifications]]Insulation resistance	(Test voltage: 500 V DC) 100 MΩ or more Input and output terminals ⇔ power and functional ground terminals Input terminals ⇔ Output terminals
[[General specifications]]Vibration resistance	5 to 8.4 Hz, single amplitude of 3.5 mm 0.138 in, 8.4 to 150 Hz, constant acceleration of 9.8 m/s ² , for 10 times each in X, Y, and Z directions (1

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octave/min.) (JIS B 3502, IEC 61131-2)

	octave/min.) (JIS B 3502, IEC 61131-2)
[[General specifications]]Shock resistance	147 m/s 2 , 4 times each in X, Y, and Z directions (JIS B 3502, IEC 61131-2)
[[General specifications]]Noise immunity	1,000 V (p-p) with pulse widths 50 ns and 1 μs (using a noise simulator) (Power supply terminal)
[[General specifications]]Operating environment	Free from corrosive gasses and excessive dust
[[General specifications]]Overvoltage class	Category II
[[General specifications]]Pollution level	Pollution level 2
[[General specifications]]Net weight	130 g approx.
[[COM0 port communication specifications]]Interface	RS-232C, three-wire system, 1 channel (Not insulated)
[[COM0 port communication specifications]]Transmission distance	15 m 49.213 ft
[[COM0 port communication specifications]]Communication configuration	1 : 1 communication
[[COM0 port communication specifications]]Communication method	Half-duplex system
[[COM0 port communication specifications]]Synchronous method	Start-stop synchronization system
[[COM0 port communication specifications]]Transmission cable	Multi-conductor shielded wire
[[COM0 port communication specifications]]Communication speed (Specified at the system registers)	1,200(Note), 2,400(Note), 4,800, 9,600, 19,200, 38,400, 57,600, 115,200, 230,400 bits/sec. Note : System register no. 415 cannot be used to set the baud rate to 1,200 bps. To set the baud rate to 1,200 bps, use the SYS1 instruction. If the baud rate of any of the COM ports is 2,400 bps or lower, F-ROM access will slow down. Example) F12(ICRD) instruction, P13(ICWT) instruction, etc.
[[COM0 port communication specifications]]Transmission format : Data length	7 bits / 8 bits
[[COM0 port communication specifications]]Transmission format : Parity	none / odd / even
[[COM0 port communication specifications]]Transmission format : Stop bit	1 bit / 2 bits
[[COM0 port communication specifications]]Transmission format : Start code	with STX / without STX
[[COM0 port communication specifications]]Transmission format : End code	CR / CR + LF / none / ETX / Time (0 to 100.00 ms)
[[COM0 port communication specifications]]Data transmission order	Transmit from bit 0 in character units
[[COM0 port communication specifications]]Communication mode	MEWTOCOL-COM (Master / Slave) (Computer link) General-purpose communication PLC link MODBUS RTU (Master / Slave)
[[COM0 port communication specifications]]Remark	The start and end codes can be used only for general-purpose serial communications. The unit No. (station number) can be selected at system register No. 410.
[[LAN communication port specifications]]Communication interface	Ethernet 100BASE-TX / 10BASE-T
[[LAN communication port specifications]]Communication speed	100 Mbps, 10 Mbps auto negotiation function
[[LAN communication port specifications]]Total cable length	

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[[LAN communication port specifications]]Number of simultaneous connections	Max. 10 (system connection: 1, user connection: 9)
[[LAN communication port specifications]]Communication method	Full duplex / Half-duplex system
[[LAN communication port specifications]]Communication protocol (Communication layer)	TCP / IP, UDP
[[LAN communication port specifications]]DNS	Supports name servers
[[LAN communication port specifications]]DHCP	Automatic IP address acquisition
[[LAN communication port specifications]]FTP server / Client	File transmission, server function, No. of users:1 Client function, Data file transfer
[[LAN communication port specifications]]SNTP	Time adjustment function
[[LAN communication port specifications]]General-purpose communication	4 kB / 1 connection (user connection: 1 to 9) (Note) Note : General-purpose communications can be up to 4 kB (reception) and up to 2 kB (transmission) per connection.
[[LAN communication port specifications]]Dedicated communication	EtherNet/IP MEWTOCOL-COM (Master / Slave) (Computer link) MODBUS-TCP (Master / Slave) MEWTOCOL-DAT (Master / Slave) General-purpose communication MC protocol (Note 1) (Master / Slave) Note : MC protocol is a short form denoting MELSEC communication protocol; MELSEC is a registered trademark of Mitsubishi Electric Corporation.QnA compatible 3E frame, only binary (bulk writing and bulk reading) use is available.
[[USB port specifications]]Standard	USB2.0 Full speed (USB mini B type)
[[USB port specifications]]Communication function	Computer link (slave)
[[Dedicated power supply output port specifications for GT series programmable display]]Terminal:5V	Connecting programmable display model : For 5 V DC type GT02 series Programmable Display
[[Input specifications]]Rated input voltage	24 V DC
[[Input specifications]]Applied voltage range	21.6 to 26.4 V DC
[[Input specifications]]Rated input current	High-speed part (X0 to X7) : 8 mA approx. Low-speed part (X8 to XF) : 3.5 mA approx.
[[Input specifications]]Input points per common	16 points/common (Either the positive or negative of the input power supply can be connected to the common terminal.)
[[Input specifications]]Min. ON voltage / Min. ON current	High-speed part (X0 to X7) : 19.2 V DC / 6 mA Low-speed part (X8 to XF) : 19.2 V DC / 3 mA
[[Input specifications]]Max. OFF voltage / Max. OFF current	2.4 V DC / 1 mA
[[Input specifications]]Input impedance	High-speed part (X0 to X7) : 3 k Ω approx. Low-speed part (X8 to XF) : 6.8 k Ω approx.
[[Input specifications]]Response time : OFF→ON	<high-speed (x0="" part="" to="" x7)=""> 135 μs or less: normal input 5 μs or less: high speed counter, pulse catch, interrupt input settings <low-speed (x8="" part="" to="" xf)=""> 1 ms or less: normal input only Note: The input time constant (0.1 to 256 ms) can be specified.</low-speed></high-speed>
[[Input specifications]]Response time : ON→OFF	Same as above
[[Input specifications]]Action indicator	LED display
[[Output specifications]]Output type	Pch open drain
[[Output specifications]]Rated load voltage	24 V DC

allowable range	
[[Output specifications]]Rated load current	0.3 A (For Y0 to YF)
[[Output specifications]]Max. surge current	High-speed part (For Y0, Y1, Y3, Y4, Y8, Y9, YB, YC) : 1.0 A, Low-speed part (For Y2, Y5, Y6, Y7, YA, YD, YE, YF) : 0.5 A
[[Output specifications]]OFF state leakage current	2 µA or less
[[Output specifications]]ON state voltage drop	0.5 V DC or less
[[Output specifications]]Overcurrent protection	Provided (automatically protected for each 8 points)
[[Output specifications]]Output points per common	16 points/common (Y0 to YF / 1 common)
[[Output specifications]]Response time : OFF→ON	High-speed part (For Y0, Y1, Y3, Y4, Y8, Y9, YB, YC) : 2 µs or less, Low-speed part (For Y2, Y5, Y6, Y7, YA, YD, YE, YF) : 1 ms or less
[[Output specifications]]Response time : $ON \rightarrow OFF$	High-speed part (For Y0, Y1, Y3, Y4, Y8, Y9, YB, YC) : 5 µs or less, Low-speed part (For Y2, Y5, Y6, Y7, YA, YD, YE, YF) : 1 ms or less
[[Output specifications]]Surge absorber	Zener diode
[[Output specifications]]Operating mode indicator	LED display
[[Current consumption]]Current consumption	Refer to "FP0H Specifications - Current consumption" for the current consumption.

Accessories

allowable range

No image		Noimage		Noimage	
Product Number	FP0-TC4	Product Number	FP0-TC8	Product Number	FP0-CCLS
Part Number	AFP0420	Part Number	AFP0421	Part Number	AFP07943
Product name	FP0 Intelligent units	Product name	FP0 Intelligent units	Product name	FP0 Link and Communication units
		Hilling and			
Product Number	AFP0HCCM1	Product Number	AFP0HCCS1	Product Number	AFP0HCCS1M1
Part Number	AFP0HCCM1	Part Number	AFP0HCCS1	Part Number	AFP0HCCS1M1
Product name	FP0H communication cassettes	Product name	FP0H communication cassettes	Product name	FP0H communication cassettes
		No image		No image	
Product Number	AFP0HCCS2	Product Number	AFP0HM4N	Product Number	AFP0HM8N
Part Number	AFP0HCCS2	Part Number	AFP0HM4N	Part Number	AFP0HM8N
Product name	FP0H communication cassettes	Product name	FP0H Positioning RTEX units	Product name	FP0H Positioning RTEX units
Product Number	AFP0HPG01L	Product Number	AFP0HPG01T	Product Number	AFP0HPG02L
Part Number	AFP0HPG01L	Part Number	AFP0HPG01T	Part Number	AFP0HPG02L

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	AFP0HC32	EP FP0H A	Automation Controls	Industrial De	evices Panasonic
Product name	FP0H positioning units	Product name	FP0H positioning units	Product name	FP0H positioning units
		No image			
Product Number	AFP0HPG02T	Product Number	AFP0HXY64D2T	Product Number	AFP0RA21
Part Number	AFP0HPG02T	Part Number	AFP0HXY64D2T	Part Number	AFP0RA21
Product name	FP0H positioning units	Product name	FP0H expansion I/O unit	Product	FP0R Analog I/O unit
				Product name	FP0R Intelligent units
Product Number	AFP0RA42	Product Number	AFP0RAD4	Product Number	AFP0RAD8
Part Number	AFP0RA42	Part Number	AFP0RAD4	Part Number	AFP0RAD8
Product	FP0R Analog I/O unit	Product	FP0R Analog input unit	Product	FP0R Analog input unit
Product name	FP0R Intelligent units	Product name	FP0R Intelligent units	Product name	FP0R Intelligent units
Product Number	AFP0RDA4	Product Number	AFP0RE16P	Product Number	AFP0RE16RM
Part Number	AFP0RDA4	Part Number	AFP0RE16P	Part Number	AFP0RE16RM
Product	FP0R Analog output unit	Product	FP0R Expansion unit	Product	FP0R Expansion unit
Product name	FP0R Intelligent units	Product name	FP0R Expansion units	Product name	FP0R Expansion units
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Product Number	AFP0RE16RS	Product Number	AFP0RE16T	Product Number	AFP0RE16X
Part Number	AFP0RE16RS	Part Number	AFP0RE16T	Part Number	AFP0RE16X
Product	FP0R Expansion unit	Product	FP0R Expansion unit	Product	FP0R Expansion unit
Product name	FP0R Expansion units	Product name	FP0R Expansion units	Product name	FP0R Expansion units
N		8			
Product Number	AFP0RE16YP	Product Number	AFP0RE16YT	Product Number	AFP0RE32P
Part Number	AFP0RE16YP	Part Number	AFP0RE16YT	Part Number	AFP0RE32P
Product	FP0R Expansion unit	Product	FP0R Expansion unit	Product	FP0R Expansion unit
Product name	FP0R Expansion units	Product name	FP0R Expansion units	Product name	FP0R Expansion units
1					
Product Number	AFP0RE32T	Product Number	AFP0RE8RM	Product Number	AFP0RE8RS
Part Number	AFP0RE32T	Part Number	AFP0RE8RM	Part Number	AFP0RE8RS
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Product	FP0R Expansion unit	Product	FP0R Expansion unit	Product	FP0R Expansion unit
Product name	FP0R Expansion units	Product name	FP0R Expansion units	Product name	FP0R Expansion units
Product Number	AFP0RE8X	Product Number	AFP0RE8YP	Product Number	AFP0RE8YRS
Part Number	AFP0RE8X	Part Number	AFP0RE8YP	Part Number	AFP0RE8YRS
Product	FP0R Expansion unit	Product	FP0R Expansion unit	Product	FP0R Expansion unit
Product name	FP0R Expansion units	Product name	FP0R Expansion units	Product name	FP0R Expansion units
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Product Number	AFP0RE8YT	Product Number	AFP2801	Product Number	AFP2802
Part Number	AFP0RE8YT	Part Number	AFP2801	Part Number	AFP2802
Product	FP0R Expansion unit	Product name	Discrete-wire connector set	Product name	Flat cable connector set
Product name	FP0R Expansion units				
Discontinue		No image		No image	
No image		Product	FPG-PN2AN	Product	FPG-PN4AN
Product	FPG-XY64D2P	Number Part Number	AFPG43610	Number Part Number	AFPG43620
Number Part Number	AFPG3567	Product	FPΣ Expansion I/O	Product	FPΣ Expansion I/O
Product	FPΣ Expansion I/O	name	unit	name	unit
name	unit				
No image		No image		No image	
Product Number	FPG-PN8AN	Product			
		Number	AFPG805	Product Number	AFPS66110
Part Number	AFPG43630		AFPG805 AFPG805		AFPS66110 AFPS66110
Part Number Product name	AFPG43630 FPΣ Expansion I/O unit	Number		Number	
Product	FPΣ Expansion I/O	Number Part Number Product	AFPG805	Number Part Number Product	AFPS66110
Product name	FPΣ Expansion I/O	Number Part Number Product name	AFPG805	Number Part Number Product name	AFPS66110
Product name No image Product	FPΣ Expansion I/O unit	Number Part Number Product name No image Product	AFPG805 Power cable	Number Part Number Product name No image Product	AFPS66110 Configurator PM
Product name No image Product Number	FPΣ Expansion I/O unit	Number Part Number Product name No image Product Number	AFPG805 Power cable AFPSGR7EN	Number Part Number Product name No image Product Number	AFPS66110 Configurator PM AFPSGR7ENS
Product name No image Product Number Part Number Product	FPΣ Expansion I/O unit AFPS66510 AFPS66510	Number Part Number Product name No image Product Part Number Product	AFPG805 Power cable AFPSGR7EN AFPSGR7EN Control FPWIN	Number Part Number Product name No image Product Number Part Number Product	AFPS66110 Configurator PM AFPSGR7ENS AFPSGR7ENS Control FPWIN
Product name No image Product Number Part Number Product name	FPΣ Expansion I/O unit AFPS66510 AFPS66510	Number Part Number Product name No image Product Number Part Number Product name	AFPG805 Power cable AFPSGR7EN AFPSGR7EN Control FPWIN	Number Part Number Product name No image Product Number Part Number Product name	AFPS66110 Configurator PM AFPSGR7ENS AFPSGR7ENS Control FPWIN
Product name No image Product Number Part Number Product name No image Product	FPΣ Expansion I/O unit AFPS66510 AFPS66510 Configurator PM	Number Part Number Product name No image Product Number Part Number Product name No image Product	AFPG805 Power cable AFPSGR7EN AFPSGR7EN Control FPWIN GR7	Number Part Number Product name No image Product Number Part Number Product name No image Product	AFPS66110 Configurator PM AFPSGR7ENS AFPSGR7ENS Control FPWIN GR7
Product No image Product Number Part Number Product name No image Product Number	FPΣ Expansion I/O unit AFPS66510 AFPS66510 Configurator PM AFPSGR7JP	Number Part Number Product name No image Product Number Product No image No image Product No image Product Number	AFPG805 Power cable AFPSGR7EN AFPSGR7EN Control FPWIN GR7 AFPSGR7JPS	Number Part Number Product name No image Product Number Product No image No image Product No image Product No image Product Number	AFPS66110 Configurator PM AFPSGR7ENS AFPSGR7ENS Control FPWIN GR7 AFPSGR7KR

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Product Number	AFPSGR7KRS	Product Number	AFPSPR7A	Product Number	AFPSPR7AS
	AFPSGR7KRS	Part Number	AFPSPR7A		AFPSPR7AS
Product name	Control FPWIN GR7	Product name	Control FPWIN Pro7	Product name	Control FPWIN Pro7

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