

## RS485 Modbus RTU supported Minimal Wiring and Cost Saving Motion Control



Compact PLC

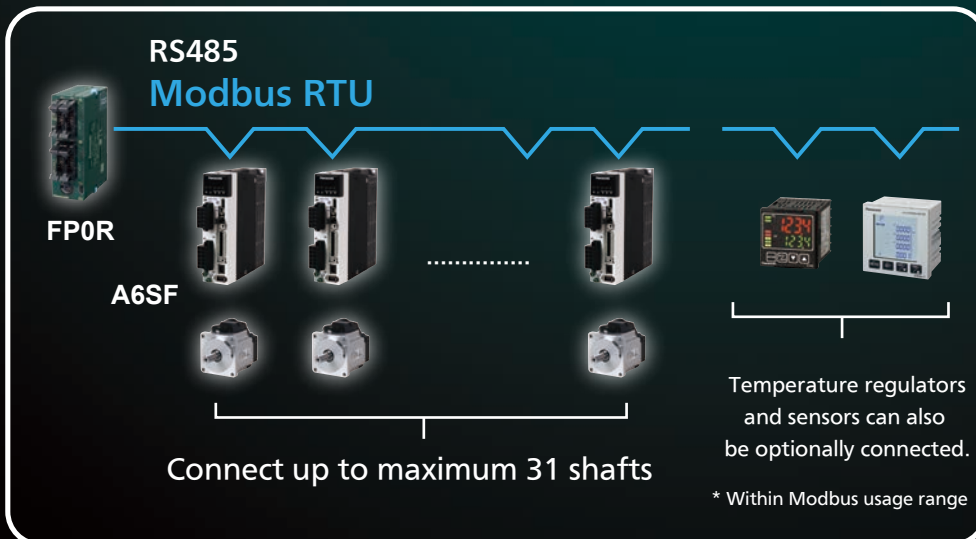


Servo motor

# FP0R

# MINAS A6

Easy to wire and add motors



FP0R motor control specifications

	Conventional model	Latest model
	FP0R pulse output	<b>FP0R &amp; MINAS A6 Modbus</b>
Control capability	50 k Hz	<b>Infinite*</b>
Max. number of controllable shafts	4 shafts	<b>31 shafts</b>

\* No limits apply for serial communication. Resolutions is decided by setting on the amplifier side.

## Advantages of using Modbus connection

Improved performance

### High-resolution control

Low vibration, higher stop accuracy

### No positional deviation caused by noise

Improved reliability

Improved functions

### Parameter editing

Supports changes in inertia ratio and damping frequency

### Servo data collection

Load factor and torque data is collected for use in remote monitoring

Cost reduction

### Easy to add and remove shafts

Control wiring is only the communication line

### Reduction of design/programming man-hours

Easy to obtain absolute position data

## Proposals for motor status monitoring and preventive maintenance

**FP0R**



Programmable controller  
**FP0R**  
Control unit with  
RS485 port

Compact model standard

**MINAS A6**



Amplifier  
**A6SF series**  
Multifunction type

High performance  
Supports general-purpose  
networks

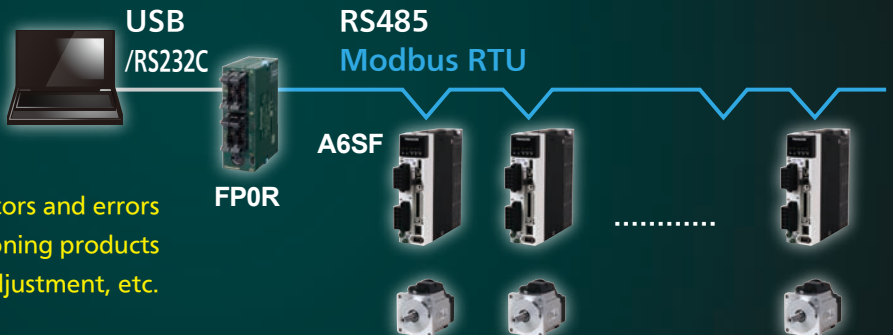


AC servo motor  
50 to 5kW

Small and  
lightweight  
Large torque and  
high-speed operation

For more information on Servo Motors and amplifiers, please visit  
<http://industrial.panasonic.com/products/motors-compressors/fa-motors>

Motor information collection and adjustment are possible from the host PC via Modbus RTU communication.



Monitoring of load factors and errors

Collection of item numbers of malfunctioning products

Gain adjustment, etc.



Programmable controller **FP7**  
For the age of control and  
information performance combined

Check online  
on your computer

Check on your  
smartphone



By using PLC FP7's Web server function, you can obtain information including motor torque, position, speed, and total operating time from a remote location and use it to monitor status, manage history, and perform preventive maintenance.

RS485  
Modbus RTU



\* Ethernet is a registered trademark of Fuji Xerox Co., Ltd. and Xerox Corporation.