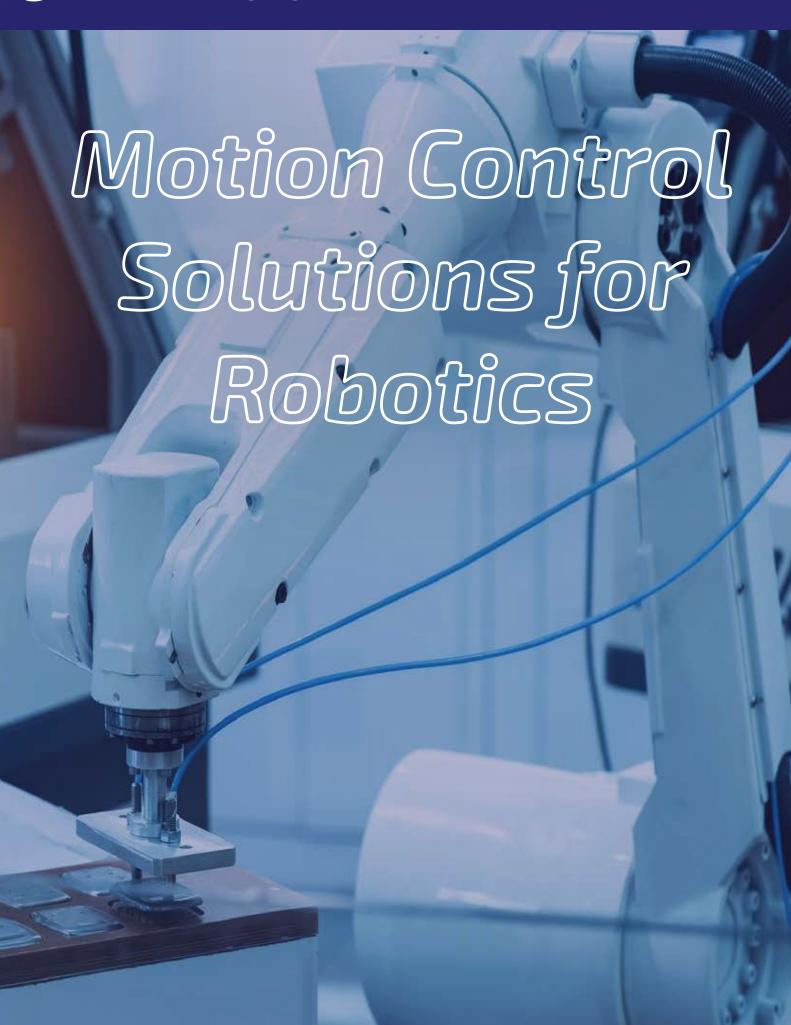
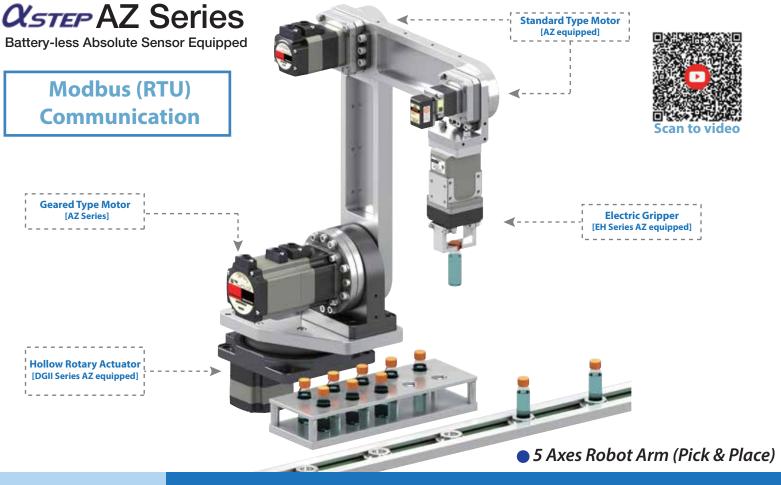
Oriental motor



Motion System Solution

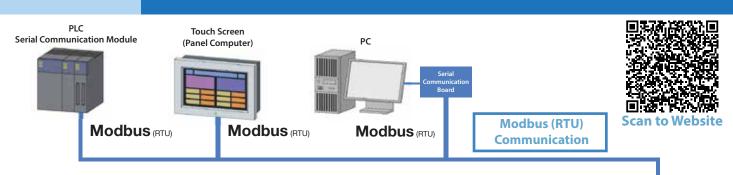
Robot Arm

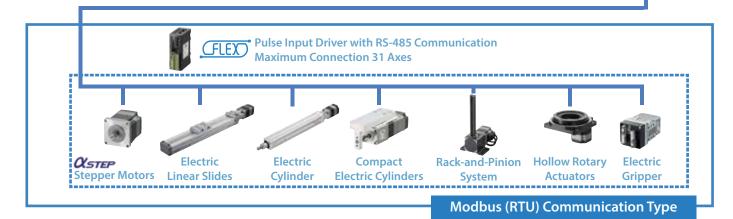
Highly versatile Modbus (RTU) communication is supported and capable of controlling multiple axes



System Configuration

Products that are applicable with Modbus (RTU) Communication





Technical Specifications

Communication Specifications

AZ Series Pulse Input with RS485 Communication Type Drivers Specifications



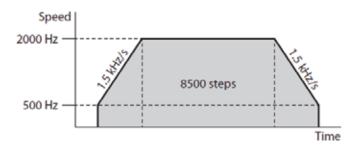


Protocol	Modbus RTU mode	
Electrical characteristics	EIA-485 compliant, Straight cable Twisted pair wire (TIA / EIA-568B CAT5e or higher recommended) is used, and the total extension distance is up to 50m. *	
Communication mode	Half-duplex communication and start-stop synchronization (data: 8 bits, stop bit: 1 bit / 2 bits, Parity: none / even / odd)	
Baud Rate	Select from 9600bps / 19200bps / 38400bps / 57600bps / 115200bps / 230400bps	
Connection Type	Up to 31 units can be connected to one programmable controller (master device).	

Query Example

Step by step guidance for complete positioning operation via Modbus RTU control are available in the Operating Manual

As an example, here is a description how to execute the following positioning operation.



1. Send the following five queries and set the operation data.

Communication data (Hex)	Description
01 10 18 00 00 02 04 00 00 00 02 D8 6E	Operation data No.0 operation type=2: Incremental positioning (based on command position)
01 10 18 02 00 02 04 00 00 21 34 C1 F1	Operation data No.0 position=8500 steps
01 10 18 04 00 02 04 00 00 07 D0 5B F0	Operation data No.0 speed=2000 Hz
01 10 18 06 00 02 04 00 00 05 DC DB 4C	Operation data No.0 starting/changing speed rate=1.5 kHz/s
01 10 18 08 00 02 04 00 00 05 DC 5A C0	Operation data No.0 stopping deceleration=1.5 kHz/s

Please contact us for sample programs











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Dedicated staff provide answers to various questions and advice regarding selection and usage of a motor, technical problems, etc via E-mail, the phone or Live Chat.



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Dedicated service engineers will visit you when assistance is required on the usage of our products. Please feel free to contact the your nearest sales offices.



Inspection and Repair

Oriental Motor offers free inspection services. Feel free to contact us if you have encountered any problems with or damage to Oriental Motor products. If repair is required, we will advise on the applicable charges. Kindly note that free repair is available if products are used in accordance with the warranty conditions.



Sizing Selection Service

We provide motor selection services, such as calculation of torque, to assist our customers in selecting the right motor.



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