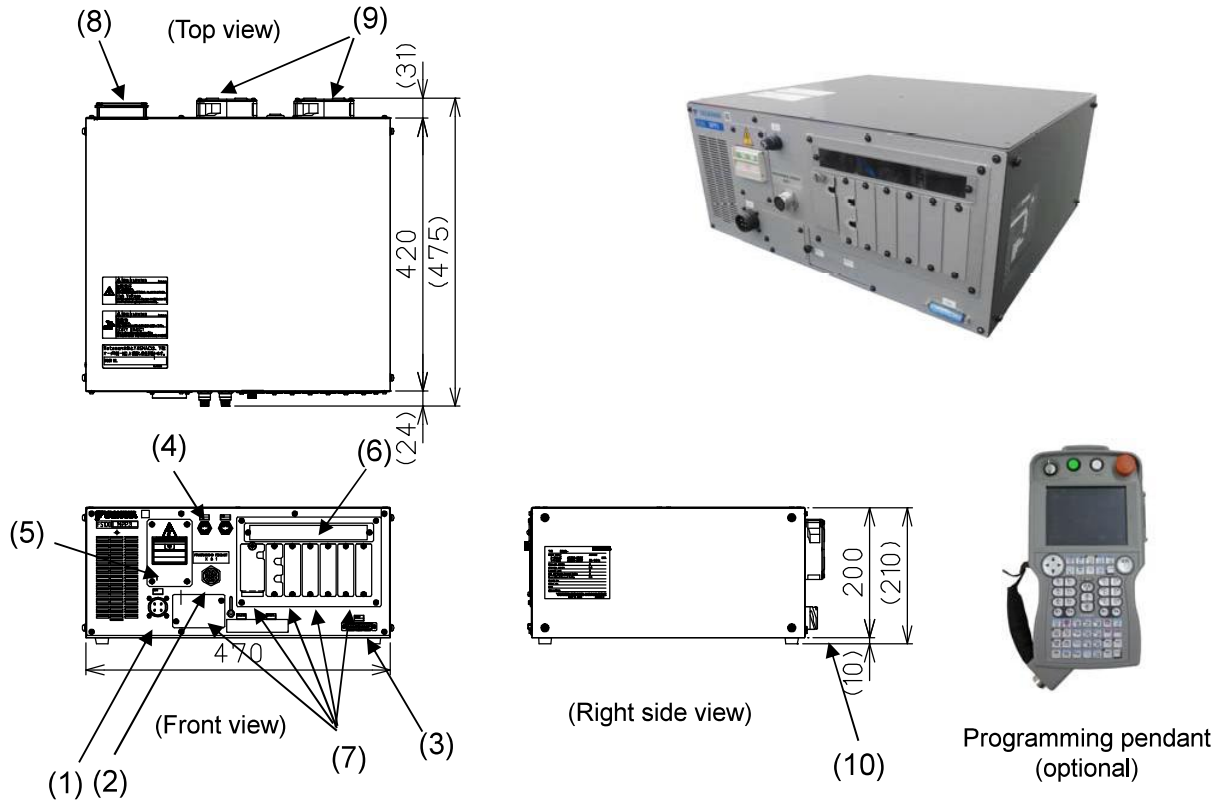


2. FS100 Robot Controller

(1) Dimension Diagram

(1-1) Standard Specifications (except for SDA series)

For the standard Japanese specification, for the ANSI standard specification and for the CE mark specification, all external dimensions are same.

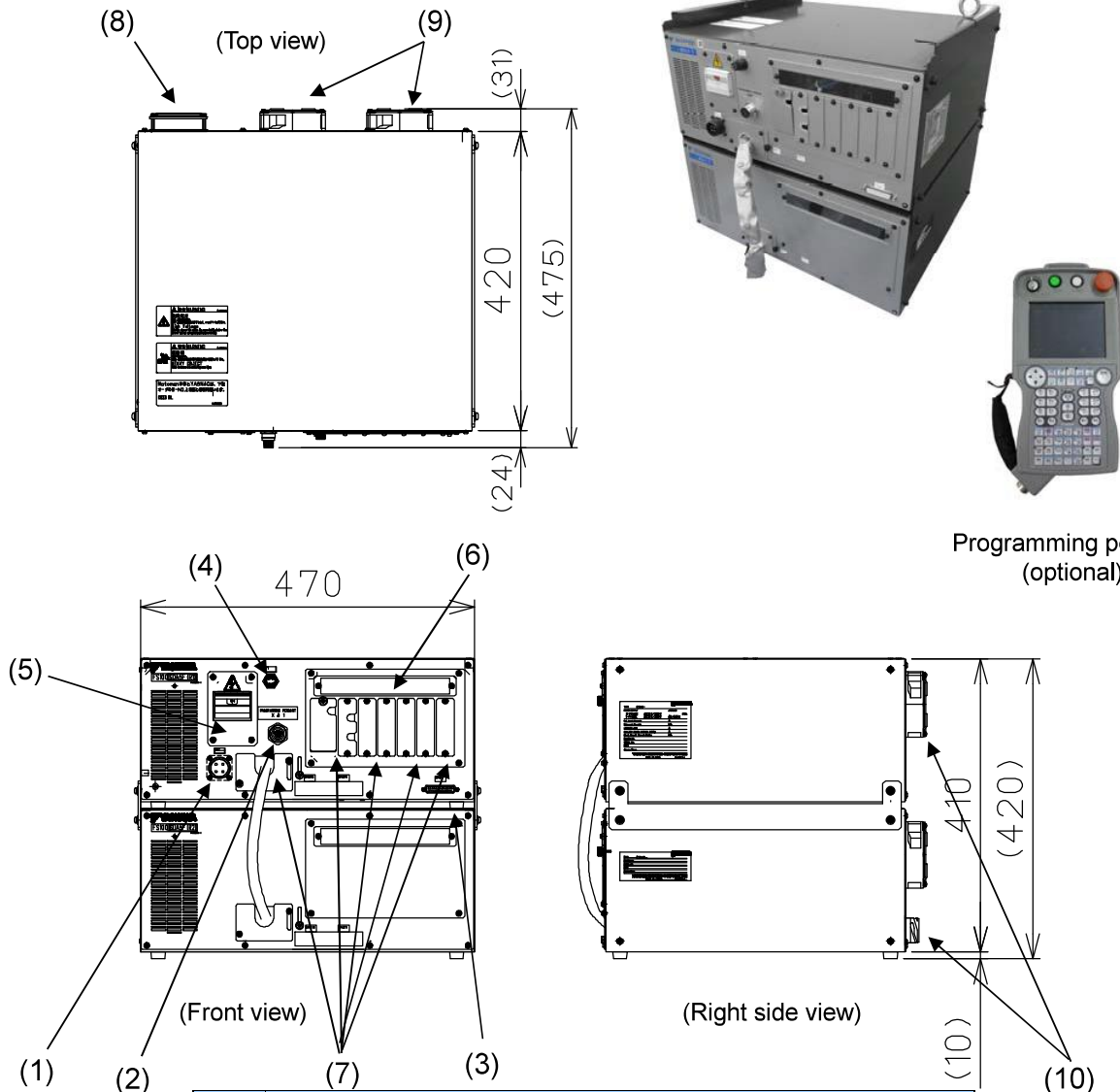


No.	Name
(1)	Power input connector (CN1)
(2)	Programming pendant connector (X81)
(3)	Signal input connector exclusively for robot (CN2)
(4)	Fuse holder (F1, F2)
(5)	Circuit Protector (QF1)
(6)	LED sight glass
(7)	Cable outlet of optional board
(8)	Exhaust fan (EV1)
(9)	Suction fan (EV2, EV3)
(10)	Manipulator cable connector (X11, X2)

* The programming pendant (JZRCR-YPP03-1 or JZRCR-YPP13-1) or a dummy connector has to be selected as an optional part.

(1-2) Coordinated Controller Specifications (SDA series)

For the standard Japanese specification, for the ANSI standard specification and for the CE mark specification, all external dimensions are same.



Programming pendant (optional)

No.	Name
(1)	Power input connector (CN1)
(2)	Programming pendant connector (X81)
(3)	Signal input connector exclusively for robot (CN2)
(4)	Fuse holder (F1, F2)
(5)	Circuit Protector (QF1)
(6)	LED sight glass
(7)	Cable outlet of optional board
(8)	Exhaust fan (Upper stage: EV1, Lower stage: R2-EV1)
(9)	Suction fan (Upper stage: EV2, EV3, Lower stage: R2-EV2, R2-EV3)
(10)	Manipulator cable connector (Upper stage: X11, X12, Lower stage: R2-X11, R2-X12)

* The programming pendant (JZRCR-YPP03-1 or JZRCR-YPP13-1) or a dummy connector has to be selected as an optional part.

(2) A Comparison Table for Specifications and Functions of FS100 and NXC100

No.	Item to be compared	FS100	NXC100 (Reference)
01	Construction of control panel	Open type, Direct cooling	←
02	Size	Common for Europe, America, and Japan (Standard Specifications) 470W x 200H x 420D, 39.5L (Coordinated Controller Specifications) 470W x 410H x 420D, 79.0L	Standard: 485W x 183H x 300D, 26.6L When I/O box is attached: 485W x 233H x 300D, 33.9L
03	Mass	20kg (Coordinated Controller Specifications: 45 kg)	16kg (When I/O box is attached: 19 kg)
04	IEC Protection Class	IP20	←
05	Ambient temperature	During operation: 0°C to 40°C During storage: -10°C to 60°C	←
06	Relative humidity	Max. 90% RH (non-condensing)	←
07	Power supply specifications	Single-phase 200/230VAC (+10%, -15%) at 50/60 Hz * Manipulator to be driven by Shingle-phase (three-phase) <MHJ, MH3F, MH5F, MH5LF, SIA5F, SIA10F, SIA20F, SDA5F, SDA10F, SDA20F> Three-phase 200/220VAC (+10, -15%) at 50/60 Hz * Manipulator to be driven only by three-phase <MH6F, MH12, HP20F, MPP3S/MPP3H, MPK2F/MPK2F-5 >	Single-phase 200/220VAC (±10%) at 50/60 Hz (±2 Hz)
08	Applicable manipulator	Payload: 20 kg or less	Payload: 5 kg or less
09	External axis motor	Motor with the rated current value 11.6 A and the maximum current value 28 A, 2 axes (For SIA/SDA series, 1 axis)	Motor with maximum 200 W, 1 axis
10	Positioning system	Serial encoder	←
11	External memory	CF/USB memory	←
12	RS232C port	RS232C: 1 system	←
13	LAN connection	1 system (10BASE-T/100BASE-TX)	←
14	Programming pendant	Optional (Select a programming pendant or a dummy connector.) * Software pendant is applicable.	Standard
15	Memory capacity	JOB: 10,000 steps Instruction: 1,000 instructions CIO ladder: 1,500 steps	JOB: 60,000 steps Instruction: 10,000 instructions CIO ladder: 10,000 steps

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No.	Item to be compared	FS100	NXC100 (Reference)
16	Number of tools and user coordinate files	Tool file: 16 User coordinate file: 16	Tool file: 24 User coordinate file: 24
17	Digital I/O (Parallel I/O)	Specific signals: 10 inputs (6 of them: DIN)/1 output General signals (standard): 28 inputs/28 outputs Maximum inputs: 1024/ Maximum outputs: 1024	Specific signals: 11 inputs/2 output General signals: 12 inputs/14 outputs Maximum inputs: 52/ Maximum outputs: 54
18	Field network	DeviceNet (Master, Slave) CC-link (Slave) Ethernet/IP (Master, Slave) Profibus-DP (Slave) PROFINET (Master, Slave) EtherCat (Slave)	DeviceNet (Master, Slave) CC-link (Slave) Ethernet/IP (Master, Slave)
19	Safety category	Safety category 3, PLd (ISO13849-1)	Safety category 3 (EN954-1)
20	CE Mark	Available	←
21	Maximum number of controlled axes/ Maximum number of robots	16 axes/2 robots	7 axes/1 robot
22	Maximum number of jobs to be performed simultaneously (Independent control): Optional	6 series (MASTER, SUB1 to SUB5)	8 series (MASTER, SUB1 to SUB7)
23	Handbrake cancelling function	Standard - Three axes for each, the first to third axis, and the fourth to sixth. The external axis, the first and second, can be individually cancelled.	Optional function (available for the individual unit model)