Programmer
D4-HPP-1

Handheld Programmer

- The DL205/D4 are supported.
- Memory cartridges can be mounted.
- Programming / Monitoring of remote PLCs are possible.
- The contents of menus, syntax errors, and self-diagnoses are displayed as messages

The photo shows the Japanese model.
(The shape is the same.)

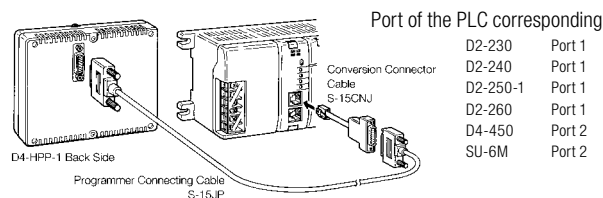## ■General Specifications

Items	Specifications
Storage Temperature	-10˚C to 65˚C
Use Ambient Temperature	0˚C to 60˚C
Ambient Humidity	Relative humidity 20% to 90% (No condensation)
Vibration Resistance	Compliant with MIL STD 810C, Method 514.2, JIS C0040, and sine wave oscillation test method
Impact Resistance	Compliant with JIS C0041 Compliant with MIL STD 810C, Method 516.2
Noise Resistance	NEMA (ICS3-304)
Surrounding Atmosphere in Place of Use	No corrosive gases

■Performance Specifications

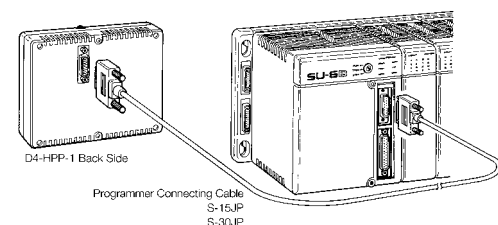| Items	Specifications
Display	LCD (24 digits x 2 lines) with backlight (Contrast can be adjusted.) LED 3 points (RUN, TEST and STOP)
Operation Key	55 keys (Command key) x 25, (Identification symbol) x 10, (Numeric key) x 10, (Operation key) x 10
Warning	Electronic buzzer
Communication Function: Port 1	RS-232C Transmission Distance: 3m
External Connection Port	Cassette interface: For data recorder connection
PPROM Writer	Write by PLC memory cartridge transfer after inserting the PROM cartridge
Use Ambient Temperature	0 to +60˚C
Consumption Current	350 mA (Supplied from CPU)
Weight	380 g (Memory cartridge and cable excluded)

■Connection

Connection Between D4-HPP-1 and the DL205/D4 PLC

Port of the PLC corresponding

D2-230	Port 1
D2-240	Port 1
D2-250-1	Port 1
D2-260	Port 1
D4-450	Port 2
SU-6M	Port 2

Conversion Connector Cable S-15CNJ
D4-HPP-1 Back Side
Programmer Connecting Cable S-15JP

Note: The PZ series cannot be used because of insufficient current for the 5 V consumption current. Use the D2-HPP.

Connection Between D4-HPP-1 and the D4/SU-6M

SU-6M
D4-HPP-1 Back Side
Programmer Connecting Cable S-15JP S-30JP

■Functional List

Programming	- Zero address readout, optional address readout, next address readout - Previous address readout, instruction word search, number search - Write / Overwrite of instruction words, insertion of instruction words, deletion of instruction words - Rewrite, insert, and delete instruction words during RUN
Monitor	- Block monitor, register monitor, plus change, minus change - Octal display change, hexadecimal display change, ASCII display change - Designated address run-time block monitor - Designated address run-time data monitor - Instruction execution state monitor (ON/OFF, master line, ACC, etc.)
Debug	- Forced ON/OFF, forced data writing - 1 scan execution, n scan execution, scan stop - 1 scan restart, scan break, 1 instruction execution - RUN mode change, TEST mode change, STOP mode change - Overwrite mode change during RUN
Edit	- Syntax check, simultaneous number overwrite - Program range deletion, program clear - Register range reset, register all reset - Data retrieval
I/O Information	- System configuration readout, I/O abnormal contents display - I/O module I/O No. display - I/O arrangement check selection, I/O arrangement error processing - Intelligent I/O monitor, intelligent I/O forced write - I/O No. optional allocation
PLC Information	- Program name read/write - Calendar readout / change, scan time readout - System parameter initialization, watchdog timer time change - CCM2 station No. setting, power failure holding area setting - Pause parameter setting, override setting - Override all cancellation - Selection of other programmer communication side (Link PLC programming, monitor) - Scan mode setting, general-purpose communication port setting, memory mode setting
Programmer Information	- D4-HPP-1, CPU, etc. REV No readout and buzzer ON/OFF - Backlight ON/OFF - Programmer online / offline selection - D4-HPP-1 self-diagnosis
Memory Cartridge	- CPU → D4-HPP-1 program / parameter / data transfer - D4-HPP-1 → CPU program / parameter / data transfer - D4-HPP-1 → CPU program / parameter / data checking - D4-HPP-1 memory cartridge clear / blank check - D4-HPP-1 memory cartridge type readout - D4-HPP-1 memory cartridge ⇔ Cassette tape recording / reproduction / checking
Other	- Password readout / registration, password open / close - GENIUS parameter setting, GENIUS station No. display - FALT message display

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Programmer
D4-HPP-1

■Panel Explanation

① CPU mode display

- RUN lighting ············· RUN state
- STOP lighting ········ STOP state
- TEST lighting············· TEST HALT state
- TEST and RUN light up   TEST RUN state
- TEST and STOP light up   TEST STOP state
- All lights out ············· D4-HPP-1 OFF line

② Instruction setting key
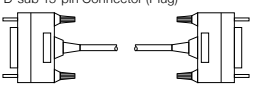
③ Memory cartridge insertion slot
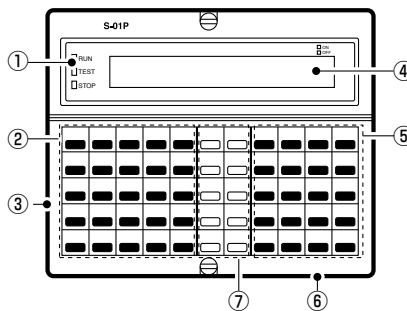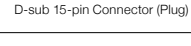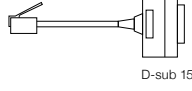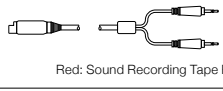
④ Message display part

- 24 digits x 2 lines
- With backlight

⑤ Operation / Numeric key

⑥ Cassette interface

⑦ Identification symbol key

■List of Components

Classification / Appearance (Reference)	Model Number	Name / Function	
	D4-HPP-1	Instruction word programmer	Online programming monitor / PPROM writer Cassette interface
D-sub 15-pin Connector (Plug) / D-sub 15-pin Connector (Plug)	S-15JP	Programmer connection cable for D4-HPP-1 1.5 m	
	S-30JP	Programmer connection cable for D4-HPP-1 3 m	
Modular 6-pin Connector (Plug) / D-sub 15-pin Connector (Socket)	S-15CNJ	Conversion connector cable between PLC (modular) and S-15JP	
Mini-DIN 8-pin Connector (Plug) / White: Playback Tape Recorder Output Terminal / Red: Sound Recording Tape Recorder Input Terminal	S-08JR	Tape recorder connection cable for D4-HPP-1 cassette I/F	
	D4-RAM-1	8 K words CMOSRAM with battery (D4-MC-BAT)	
	D4-RAM-2	32 K words CMOSRAM with battery (D4-MC-BAT)	
	D4-EE-2	32 K words EEPROM electricity erasure type	
	G-53M	8 K words CMOSRAM with high capacity capacitor	

■Dimensions   (Unit: mm)
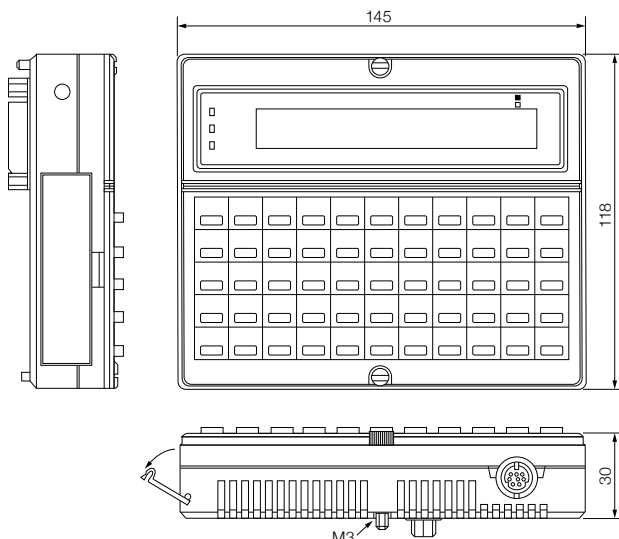
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GENERAL CATALOG 2016

Programmer
D2-HPP

Handheld Programmer

- The DL05/DL06/DL205/PZ/D4 are supported.
- EEPROMs can be mounted.
- Everything from programming to memory storage is possible.
- The contents of menus, syntax errors, and self-diagnoses are displayed as messages

The photo shows the Japanese model.
(The shape is the same.)

■General Specifications

Items	Specifications
Storage Temperature	-10°C to 65°C
Use Ambient Temperature	0°C to 60°C
Ambient Humidity	Relative humidity 20% to 90% (No condensation)
Vibration Resistance	Compliant with MIL STD 810C, Method 514.2, JIS C0040, and sine wave oscillation test method
Impact Resistance	Compliant with JIS C0041 Compliant with MIL STD 810C, Method 516.2
Noise Resistance	NEMA (ICS3-304)
Surrounding Atmosphere in Place of Use	No corrosive gases

■Performance Specifications

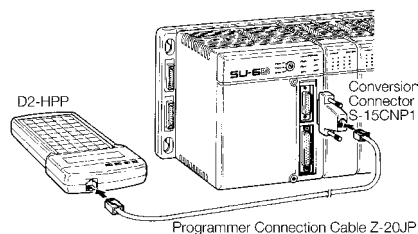| Items	Specifications
Display	LCD (16 digits x 2 lines) with backlight LED 4 points (RUN·TEST·STOP·OFFLINE)
Operation Key	45 keys
Warning	Electronic buzzer
Communication Function: Port 1	RS-232C Transmission distance: 3 m
PPROM writer	Write by attaching memory for storage
Use Ambient Temperature	0 to +50°C
Consumption Current	200 mA (Supplied from CPU)
Weight	220 g
Accessories	Programmer connection cable Z-20JP

■Connection

Connection Between D2-HPP and the DL05/DL06/DL205/PZ/D4 PLC

D2-HPP

Programmer connection cable Z-20JP
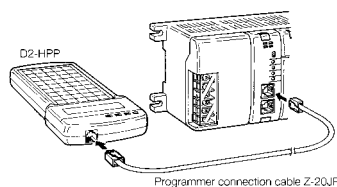
Port of the PLC corresponding

DL05	Port 1
DL06	Port 1
D2-230	Port 1
D2-240	Port 1
D2-250-1	Port 1
D2-260	Port 1
PZ1, 2, 3	Port 1
D4-450	Port 2
SU-6M	Port 2

Connection Between D2-HPP and the D4/SU-6M

D2-HPP

SU-6

Conversion Connector S-15CNP1

Programmer Connection Cable Z-20JP

■Functional List

Programming	- Zero address readout, optional address readout, next address readout - Previous address readout, instruction word search, number search - Write / Overwrite of instruction words, insertion of instruction words, deletion of instruction words - Rewrite, insert, and delete instruction words during RUN
Monitor	- Block monitor, register monitor, plus change, minus change - Octal display change, decimal display change, hexadecimal display change, ASCII display change - Designated address run-time block monitor - Designated address run-time data monitor - Instruction execution state monitor (ON/OFF, master line, ACC, etc.)
Debug	- Forced ON/OFF, forced data writing - Scan stop, 1 scan restart - RUN mode change, TEST mode change, STOP mode change - Overwrite mode change during RUN
Edit	- Syntax check, simultaneous number overwrite - Program range deletion, program clear - Register all reset
I/O Information	- System configuration readout, I/O abnormal contents display - I/O arrangement check selection, I/O arrangement error processing - I/O No. optional allocation
PLC Information	- Program name read/write - Calendar readout / change, scan time readout - System parameter initialization, watchdog timer time change - CCM2 station No. setting, power failure holding area setting - Pause parameter setting, override setting - Override all cancellation - Special feature setting, history information display - Scan mode setting, general-purpose communication port setting, memory mode setting
Programmer Information	- D2-HPP, CPU, etc. REV No readout - Buzzer ON/OFF - D2-HPP self-diagnosis
Memory Cartridge	- CPU → D2-HPP program / parameter / data transfer - D2-HPP → CPU program / parameter / data transfer - D2-HPP ⇔ CPU program / parameter / data checking - EEPROM clear / blank check - EEPROM type readout
Other	- Communication with link PLC, online / offline selection - Password readout / registration, password open / close - FALT message display

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Programmer
D2-HPP

■Panel Explanation

①CPU mode display

[CPU mode display]
- RUN lighting ············ RUN state
- TOP lighting ············ STOP state
- RUN and TEST light up TEST RUN state
- STOP and TEST light up TEST STOP state
- TEST lighting············ TEST HALT state
- OFF LINE lighting ······ D2-HPP OFF line

[Overwrite mode display during RUN]
- RUN blinking ············ CPU is in the RUN state and write/insert/delete are possible in units of instruction.

②Message display part
- 16 digits x 2 lines
- With backlight
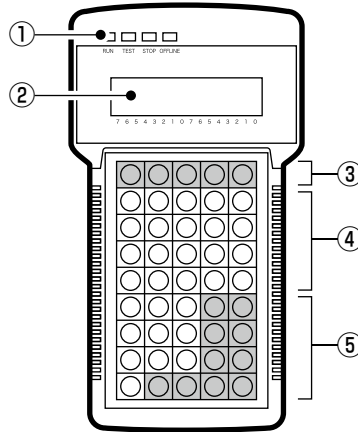
③Operation key (Main)

④Instruction setting/ Identification symbol key

⑤Operation / Numeric key

■List of Components

Classification / Appearance (Reference)	Model Number	Name / Function
	D2-HPP	Instruction word programmer (Equipped with Z-20JP) — Online / Off-line programming monitor /EEPROM writer
Modular 6-pin Connector Plug	Z-20JP	Programmer connection cable for D2-HPP / DV-1000 (2 m)
D-sub 15-pin	S-15CNP1	Conversion connector between D4 programmer port and Z-20JP
Storage Memory EEPROM	D2-EE-1	EEPROM for PZ1/2, D2-230: 8 K bytes (2 units)
	D2-EE-2	EEPROM for PZ3, D2-240: 32 K bytes (2 units)

■Dimensions   (Unit: mm)

27

90

167

76

User ROM Socket