INSTRUCTION MANUAL

INSTALLATION BASE

(16 positions, Yokogawa DCS VMx / PM1 card use / M3.5 screw terminal)

BEFORE USE

Thank you for choosing us. Before use, please check contents of the package you received as outlined below. If you have any problems or questions with the product, please contact our sales office or representatives.

■ PACKAGE INCLUDES:

Installation base(1))	
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MODEL NO.

Confirm Model No. marking on the product to be exactly what you ordered.

■INSTRUCTION MANUAL

This manual describes necessary points of caution when you use this product, including installation, connection and basic maintenance procedures.

POINTS OF CAUTION

■ POWER INPUT RATING & OPERATIONAL RANGE

• Locate the power input rating marked on the product and confirm its operational range as indicated below: 85 - 132V AC rating: 85 - 132V, 47 - 63 Hz, $\geq 130VA$ 170 - 264V AC rating: 170 - 264V, 47 - 63 Hz, $\geq 130VA$ 24V DC rating: $24V \pm 10\%$, $\geq 2.5A$

■ GENERAL PRECAUTIONS

• Before you remove the unit from the base or mount it, turn off the power supply and input signal for safety.

ENVIRONMENT

- Indoor use.
- When heavy dust or metal particles are present in the air, install the installation base inside proper housing and ventilate it.
- Do not install the base where it is subjected to continuous vibration. Do not subject the unit to physical impact.
- Environmental temperature must be within 0 to 55°C or 32 to 131°F (0 to 50°C or 32 to 122°F for AC power) with relative humidity within 30 to 90% RH in order to ensure adequate life span and operation.
- Be sure that the ventilation slits are not covered with cables, etc.

■ WIRING

- Do not install cables close to noise sources (relay drive cable, high frequency line, etc.).
- Do not bind these cables together with those in which noises are present. Do not install them in the same duct.
- Be sure to close the terminal cover for safety.

■ AND

• The unit is designed to function as soon as power is supplied, however, a warm up for 10 minutes is required for satisfying complete performance described in the data sheet.

COMPONENT IDENTIFICATION

REAR VIEW



MODEL M8BS-16Y1

MOUNTING REQUIREMENTS unit: mm (inch)



TERMINAL CONNECTIONS

Connect the unit as in the diagram below.

■ EXTERNAL DIMENSIONS unit: mm (inch)

• M8BS-16Y1-K, R



• M8BS-16Y1-KK, L



CONNECTOR PIN ASSIGNMENT

Connector type: Yokogawa DCS VMx / PM1 card use (PS-40PE-D4T1-PN1) CN1: VMx / PM1 card use*

The input or output 1 is connected to the connector.

	Pico-M LOCATION NO.														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	VM1 / PM1 / VM4 CARD INPUT or OUTPUT														
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
VM2 CARD INPUT NO. VM2 CAP												сυт	PUT	r NC).

* VMx / PM1 card (uses KS2 cable)
VM1: analog input 16 points
VM2: analog input 8 points / analog output 8 points
VM4: analog output 16 points
PM1: pulse input 16 points

■ CONNECTION DIAGRAM

Power Supply Unit Code R, K



Power Supply Unit Code KK, L



* For power supply unit code KK only.

** The input and output terminals are reversed for model M8YSx, M8YCx. Use either Output 1 (connector) or Output 2 terminal for the input.

WIRING INSTRUCTIONS

■ M3.5 Screw (I/O, power supply unit code: K, R) Torque: 0.8 N·m

■ M4 Screw (power supply unit code: KK, L) Torque: 0.8 N·m

CHECKING

- 1) Terminal wiring: Check that all cables are correctly connected according to the connection diagram.
- 2) Power input voltage: Check voltage across the power terminals.
- 3) Installation & environment

MAINTENANCE

For maintaining AC power supply types, Power Supply Units are available as follows:

- 85 132V AC single power supply: HDC6-1
- \bullet 85 132V AC two independent power sources: HDC4-K-R
- \bullet 170 264V AC single power supply: HDC4-L-R

Power units' standard life is expected for 10 years with average ambient temperature $35^{\circ}C$ ($95^{\circ}F$) and 1.0A load. Contact us for use in extremely different conditions.

■ HOW TO REPLACE THE POWER UNIT (power supply unit code: KK, L)

- 1) Prepare Power Unit (switching regulator) model HDC4-K-R or HDC4-L-R.
- 2) Turn off the power supply connected to the Power Unit.
- 3) Remove the wire binding and wiring connected to the terminal 1-2 and 4-5.
- Loosen and remove the mounting screws A (4 places). Remove also the screws B behind the base plate, fixing the unit to be replaced.
- 5) Detach the Power Unit from the Installation Base.
- 6) Remove the mounting screws ${\bf C}$ (2 places) from the new Power Unit.
- 7) Separate the new Power Unit from the mounting plate.
- 8) Attach the new Power Unit to the Installation Base and tighten the screws in reverse order as explained above.



HOW TO REPLACE THE POWER UNIT (power supply unit code: K)

- 1) Prepare Power Unit (switching regulator) model HDC6-1.
- 2) Turn off the power supply connected to the Power Unit.
- 3) Remove the wiring connected to the terminals 1 2 and 3.
- 4) Loosen and remove the mounting screws **A** (2 places). Loosen the mounting screws **B** (2 places) and pull out the Power Unit in sliding it to the direction pointed by the arrow in the figure below.
- 5) Disconnect the connectors of the Power Unit.
- 6) Place the new Power Unit in reverse order as explained above.

■ FRONT VIEW



Note: Check that the internal wiring does not get caught between other objects when assembling.

LIGHTNING SURGE PROTECTION

We offer a series of lightning surge protector for protection against induced lightning surges. Please contact us to choose appropriate models.