Digital valve controllers DC-A2M

In the DC-A2M controller, the functions for inputting and displaying the settings required for controlling digital valves and for driving the valves have been completely integrated. This controller can be used for all digital valve models which incorporate a 2-phase motor.

The controller has high general-purpose capabilities and it comes with many and varied operation modes in order to support many different kinds of applications in line with the objectives of the systems concerned.

Model Code

DC-A2M-F-10

| 1 | 2 | 3 | 4 |

1 Digital valve controller
2 Compatible stepping motor
  2M: 2-phase stepping motor

3 Direction of wiring surface
  F: Front surface wiring (same as operating surface)
  R: Rear surface wiring (opposite side from operating surface)
4 Design no.

Specifications

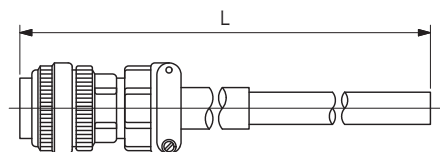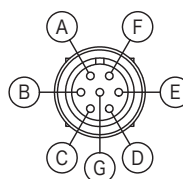| Model Code	DC-A2M-F-10	DC-A2M-R-10
Mounting method	Mounted on wall or recessed in panel	Recessed in panel
Wiring surface	Front surface: Same as operating surface	Rear surface: Opposite side from operating surface
Dimensions	230 H × 64 W × 158 D	230 H × 64 W × 176 D
Mounting dimensions	220 (H) x 40 (W) mm (M4 x 4 locations), panel cutout: 211 (H) x 65 (W) mm	
Power requirements	AC100 ～ 220 V ±10%, 50/60 Hz	
Built-in power supply	Switching power supply (with inrush current suppression and overcurrent protection functions)	
Power consumption	Less than 50 VA	
Control input signals	DC 24 V ±3 V, source or sink (selectable by wiring), 12 channels (reset x 1 channel, general purpose x 11 channels)	
Control output signals	1 channel each for PMOS open drain and NMOS open drain (operation-enabled output)	
Valve drive output	For 2-phase stepping motor, 2-phase energization/1-2-phase energization (selected by a setting)	
Setting range (Resolution)	Relief valves and flow control valves: 0 to 100/0 to 200 (selected by a setting) Directional & flow control valves: -63 to +63/-126 to +126 (selected by a setting)	
No. of points which can be set	8 points/11 points/8 points x 4 files (32 points): Selected by a setting	
External setting input	8-bit binary (parallel input): Selected by a setting	
Weight	2.0 kg	

Dedicated Harness

● **Harnesses for valve connections**
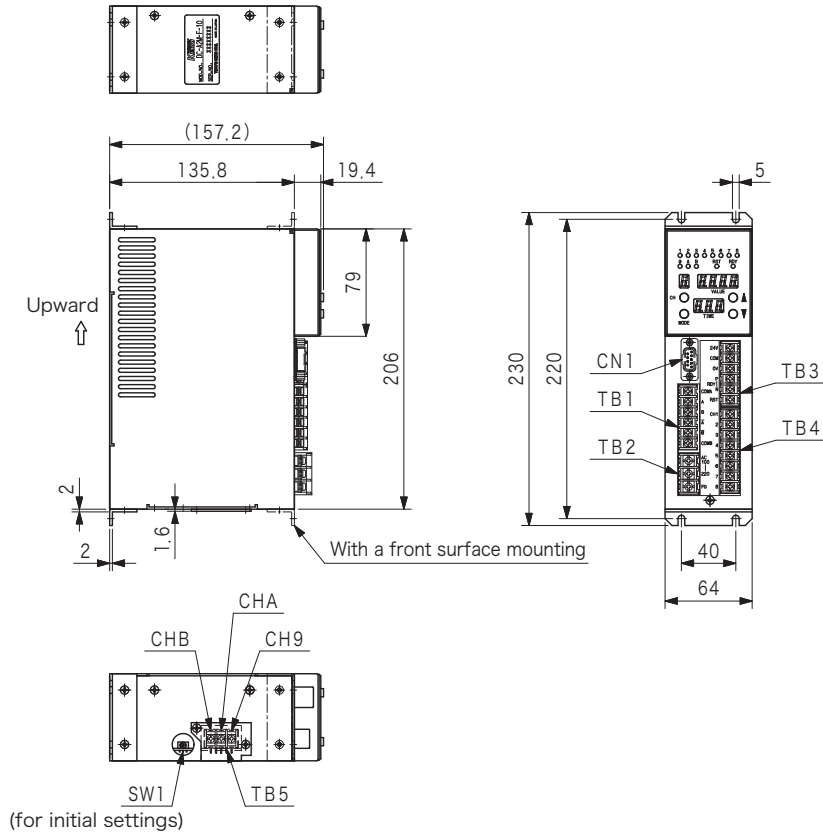
DC-H-DV-600-10

| 1 | 2 | 3 | 4 |

1 Dedicated harness
2 For valve connections
3 Length (L)
  200: 2 m   300: 3 m   600: 6 m
  1000: 10 m   1500: 15 m   2000: 20 m
4 Design no.

Pin identification	A	B	C	D	E	F	G
Insulator color	Red	Green	Yellow	Brown	Black	White	—

Digital Valve Control Systems

TOKYO KEIKI INC.

Dimensions

DC-A2M-F-10

Upward ⇧

(157.2)
135.8 19.4
79
206
2
1.6
2

With a front surface mounting

5
230
220
40
64

CN1
TB1
TB2
TB3
TB4

CHA
CHB CH9

SW1
(for initial settings)
TB5

DC-A2M-R-10

(176)
152.6
21.4 139.8
95
Upward ⇧
206
1.6 1.6

5
230
220
40
64

TB1
TB2
TB3
TB4

CHA
CHB CH9

CN1

SW1
(for initial settings)
TB5

TOKYO KEIKI INC.