

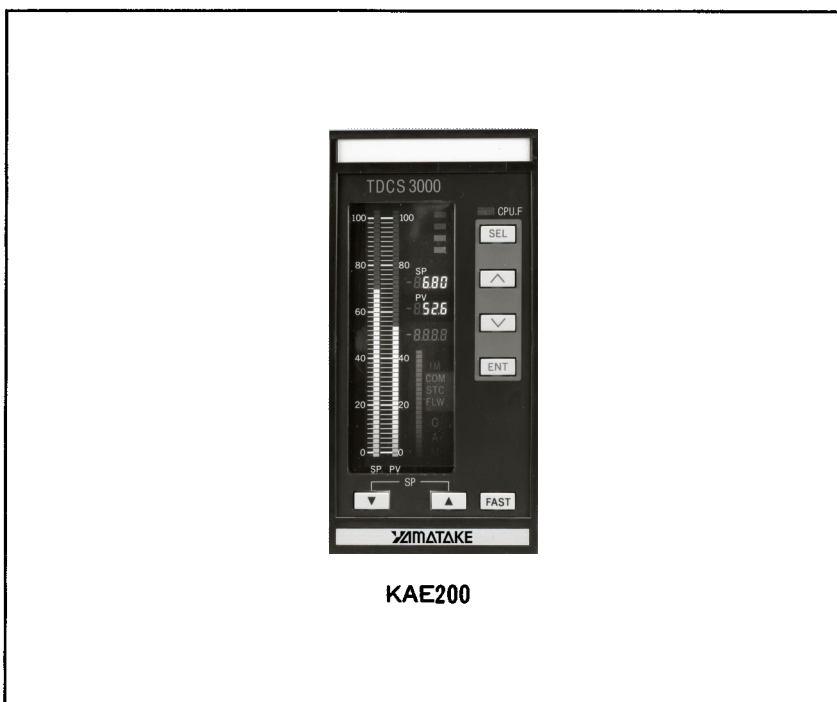
TDC 3000 SSC II Manual Setter Model KAE 100/200

Introduction

The TDC 3000 SSC II Manual Setter (KAE) is a microprocessor-based, manual setter that sets a 1 to 5 Vdc or 4 to 20mA dc output signal in a digital value, which is then used as an external signal to and setpoint for a cascade controller.

The KAE provides simultaneous bar graphs and digital values displays in percentages or engineering units for each setpoint.

The KAE200 also provides simultaneous bar graphs and digital values displays for each PV value.



Standard specifications

Item		Description
Display section	Display Number of displays Display system Indicating accuracy	2 points(SP: green, PV: red (for KAE200 only)) Simultaneous bar graph (in color LCD) and digital value displays ((bar graph : 53 segments, digital value : 7 segments (4 digits)) Digital indication : $\pm 0.15\%$ FS ± 1 digit, bar graph resolution : 2%
	Instrument failure display	1 point, LED lamp
Input section	Number of inputs Input voltage Input impedance Receiving system Allowable input overvoltage	1 point (for KAE200 only) 1 to 5 V dc Power-on: 5M Ω , Power-off: 60k Ω Differential type receive, not isolated ± 30 Vdc
Output section	Voltage output Number of outputs Output voltage Output impedance Output system	1 point 1 to 5 Vdc 250 Ω Differential type output
	Current output Number of outputs Output current Output impedance Allowable load Output system	1 point 4 to 20mA dc 250k Ω 500 Ω Minus common
	Digital output Number of outputs Output system Contact rating	1 point (instrument failure) Transistor output (open-collector) 30 Vdc, 0.2A dc maximum (resistive load)

	Item	Description
General Specifications	Power supply Power consumption Signal line connection Power interruption/failure Ambient temperature Ambient humidity Installation Mounting angle Finish Weight	24 Vdc + 15%, - 10% 400mA dc maximum (24V dc) Instrument back-panel terminal connection. Connecting line diameter: 1.25mm ² maximum 16 Vdc or over, within 200 ms (with STX type power supply) Data holding at power interruption: - Engineering unit data settings (decimal point position, upper/lower limit values) : Backup by EEPROM - Monitor setting data (monitor function, setting values, hysteresis) : RAM backup by super capacitor (72 hours) 0 to 50°C 10 to 90% RH Panel flush mount, indoor installation Instrument back can be slanted 60° from horizontal position.) Case: Dark beige Bezel: Black 3.0kg

Model number table

Basic Model No.	Selections	Options	Description
KAE100			Manual setter
KAE200			Manual setter with PV indicator
	-0		Main power: 24Vdc
		-X	No option

Connection

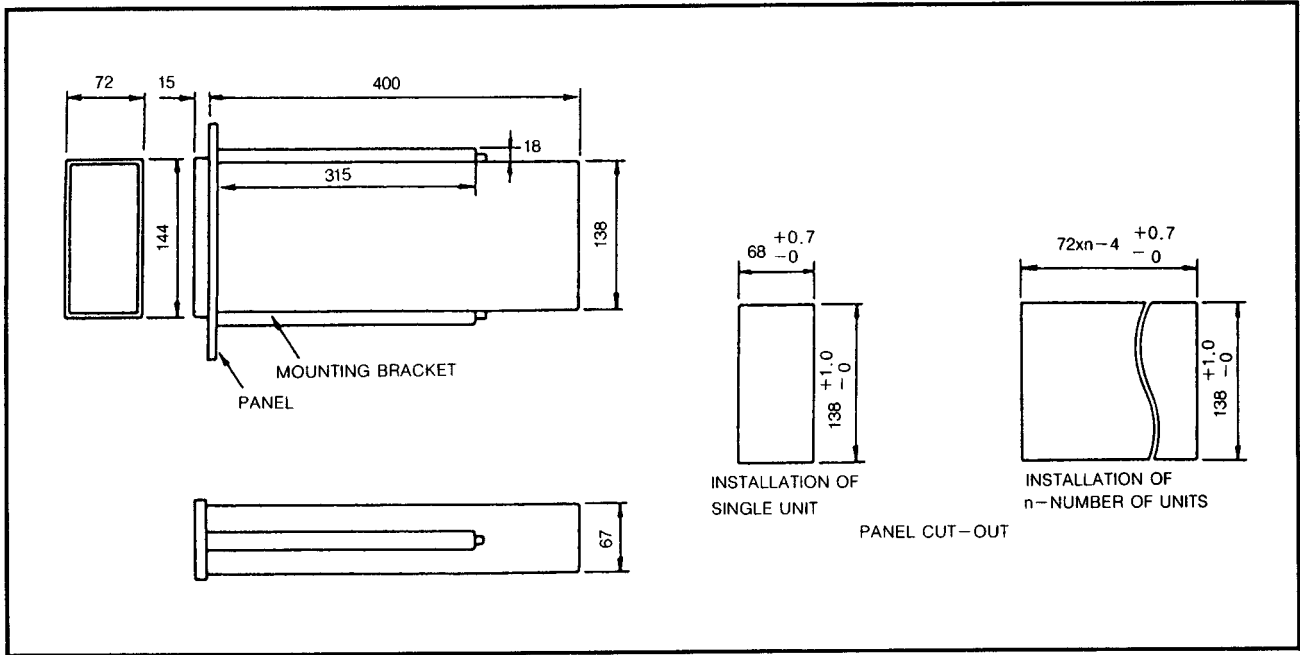
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22

No.	Symbol	Contents
1	+24V	Instrument main power ⊕
2	+24V	
3	AOI+	4-20mA dc output ⊕
4	AOI-	4-20mA dc output ⊖
5	AOV+	1-5V dc output ⊕
6	AOV-	1-5V dc output ⊖
7	—	—
8	—	—
9*	PV+	1-5V dc input ⊕ (PV input)
10*	PV-	1-5V dc input ⊖ (PV input)
11	OV	For power, CPU. F-common
12	OV	

*: Applicable to KAE200 only

No.	Symbol	Contents
13	—	—
14	—	—
15	—	—
16	—	—
17	—	—
18	CPU. F	Instrument failure output
19	—	—
20	—	—
21	GND	Chassis ground
22	GND	

Dimensions



Specifications are subject to change without notice.

Yamatake Corporation

Totate International Building
2-12-19 Shibuya
Shibuya-ku Tokyo 150-8316
Tel : 81-3-3486-2216
Fax : 81-3-3486-2503

Yamatake-SIC Control Systems Co., Ltd.
Shanghai Yamatake Jinshan Control Instruments Co., Ltd.
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