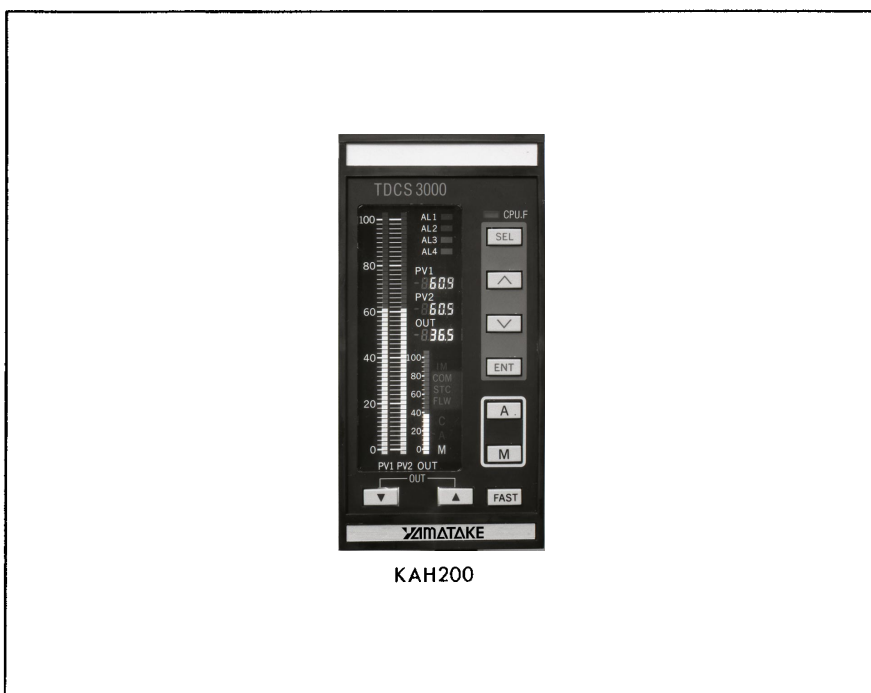


TDC 3000 SSC II Manual Loader Model KAH 100/200

Introduction

The TDC 3000 SSC II Manual Loader (KAH) is a microprocessor-based, manual controller that outputs a 1 to 5 Vdc and 4 to 20mA DC signal to a final control element, and can provide simultaneous bar graphs and digital values in percentages or engineering units for input and output displays.

The KAH provides automatic-manual transfer and monitor functions to allow monitor settings of four points. The monitor setting functions can be assigned for two inputs. The displays instrument accommodates front panel alarm lamp displays and contact outputs to external monitors.



Standard specifications

Item		Description
Display section	Input display	<p>Number of displays 2 points (PV1: green, PV2: red)</p> <p>Display system Simultaneous bar graph (in color LCD) and digital value displays (Bar graph: 53 segments, digital value: 7 segments (4 digits))</p> <p>Indicating accuracy Digital indication: $\pm 0.15\%$ FS ± 1 digit, bar graph resolution: 2%</p>
	Output display	<p>Number of display 1 point (OUT: yellow)</p> <p>Display system Simultaneous bar graph (in color LCD) and digital value displays (Bar graph: 53 segments, digital value: 7 segments (4 digits))</p> <p>Indicating system Digital indication: $\pm 0.25\%$ ± 1 digit, bar graph resolution: 5%</p>
	Alarm display	4 points, color LCD
	Instrument failure	1 point, LED lamp
Input section	Number of inputs	2 points
	Input voltage	1 to 5 Vdc
	Input impedance	Power-on: 5M Ω , power-off: 60k Ω
	Receiving system	Differential type receive, not isolated
	Allowable input overvoltage	± 30 Vdc maximum

Item		Description
Output section	Voltage output	Number of outputs Output voltage Output impedance Output system
	Current output	1 point 1 to 5 Vdc 250Ω Differential output
	Digital output	1 point 4 to 20 mA _{dc} 250KΩ 500Ω Minus common
Auto/ manual transfer	Transfer system	KAH100: 5 points } Monitor output: 4 points, Instrument failure: 1 point KAH200: 6 points } Mode status output: 1 point (KAH200) Transistor output (Open collector) 30 Vdc, 0.2A _{dc} maximum (resistive load)
	External contact input	Front panel push-button, external contact input (See the following) 2 points (AUTO – MAN transfer signal) Diode isolation LOW: 0–4V, HIGH: 10–30V LOW: 3mA or less, HIGH: 10μA or less 30Vdc maximum
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 (24 Vdc) Instrument back-panel terminal connection. Connecting line diameter: 1.25mm ² maximum 16 Vdc or over, within 200ms (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) •Output value: RAM backup by super capacitor (72 hours) •Mode: RAM backup by super capacitor (72 hours) (KAH200) 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
KAH100			Manual loader (without AUT/MAN)
KAH200			Manual loader (with AUT/MAN)
	-0		24Vdc
		-X	No option

Connection

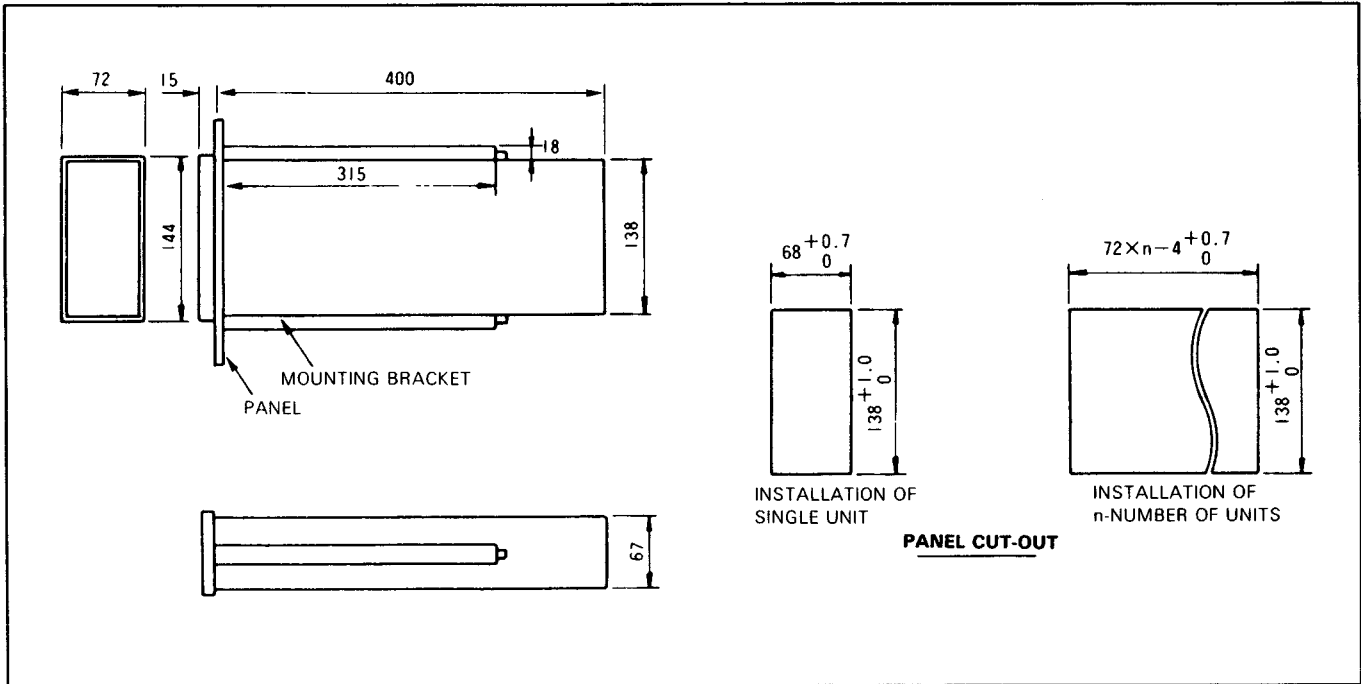
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22

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	PV1+	1-5V dc input (+)
8	PV1-	1-5V dc input (-)
9	PV1+	1-5V dc input (+)
10	PV1-	1-5V dc input (-)
11	0V	For power, CPU, F-common, AL1 - AL4 common MDS, DIA, DIM common
12	0V	

No.	Symbol	Contents
13	AL1	Monitor output #1
14	AL2	Monitor output #2
15	AL3	Monitor output #3
16	AL4	Monitor output #4
17	MDS	Digital output (mode status)
18	CPU.F	Instrument failure output
19	DIA	Digital input (mode transfer: AUTO)*1
20	DIM	Digital input (mode transfer: MAN)*1
21	GND	Chassis ground
22	GND	

Note: *1: KAH200 only

Dimensions



Specifications are subject to change without notice.

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