



Specifications

🌒 Input 🌒

Number of input	: 1 point or 2 points (2 points type : Released soon)
Input	: RTD : Pt100(JIS/IEC), JPt100(JIS)
	* 3 wire system or 4 wire system
Input range	: 0.000 ~ 50.000°C
Sampling time	: 0.1 sec
Influence of input lea	d : Less than 0.04°C $$ * Less than 10 Ω per wire
Action at input brea	k : Up scale
Action at input short circl	uit: Down scale
PV bias	: -19.999 ~ 19.999°C
Digital filter	: 0.1 ~ 100.0 sec (No filter when 0.0 is set)

Performance

letting accuracy	: a)Temperature	: ±0.05°C
	b)Other setting	: Within ±0.1% of setting range
nput display accurac	y: ±0.05°C (Ambien	t temperature 23°C ±5°C)
nsulation resistance	e : More than 20M Ω (500V DC) between measued and ground terminal
	More than $20M\Omega$	(500V DC) between power and ground terminal
Vithstand voltage	: 1000V AC for one	minute between measued and ground terminal
	1500V AC for one	e minute between power and ground terminal
	2300V AC for one	e minute between power and input terminal

🌒 Control 🌒

set.)
st)
utput)
600Ω
600Ω
se st It 60

🌒 Alarm output 🌗

AI

0

umber of alarm	: 2 points
arm types	: a) Deviation high alarm
	b) Deviation low alarm
	c) Deviation high / low alarm
	d) Band alarm
	e) Process high alarm
	f) Pocess low alarm
	*Hold action can be programmed.
etting range	: a) Deviation and band alarm : -19.999~19.999°C
	*Action is not guaranteed case for an action point of input range outside.
	b) Process alarm : 0.000~50.000°C
fferential gap	: 0.000~5.000°C
arm timer	: 0~600 sec
arm method	: Energized output or de-energized output
utput	: Relay contact output 250V AC 1A (Resistive load) Form 1a

🌒 Digital communications 🌗

Communication standar	d: RS-485 Conformity (2-wire)
Protocol	: ANSI X3.28(1976) 2.5 A4 or ladder communication
Communication metho	d: Half-duplex multidrop connection
Synchronous metho	d: Asynchronous method
Communication spee	d: 1200BPS, 2400BPS, 4800BPS, 9600BPS, 19200BPS
	*Selectable
Bit configuration	: a) Start bit : 1
	b) Data bit : 7 or 8
	c) Parity bit : "with" or "without", even or odd in case of "with" parity
	d) Stop bit : 1 or 2
	*b)~d) selectable
Maximum connectio	n: 32 (Address can be set from 0 to 99.)

Contact input

Number of point : 1 point Contact input type : RUN/STOP Input rating

- : Non voltage contact input
- a) OPEN : $500k\Omega$ or more
- b) CLOSE : 10Ω or less



UV	Output signal	Output Impedance	Allowable load resistance
4	0 – 5 V	Less than 0.1Ω	More than $1k\Omega$
6	1 – 5 V	Less than 0.1Ω	More than $1k\Omega$
7	0 – 20mA	Less than 5M Ω	Less than 600Ω
8	4 – 20mA	Less than 5M Ω	Less than 600Ω

General specifications

Dustproof and waterproo	of : IP54 (D	ustpoof and waterproof are effective only to the front
structure	direction wh	nen installed on a panel.)
Supply voltage	: a) AC type	: 85 to 264V AC (50/60Hz)
	Including	power voltage fluctuation (100 to 240V AC rating)
	b) 24V AC t	ype : 21.6 to 26.4V AC
	Including	power voltage fluctuation (24V AC rating)
	c) 24V DC 1	type : 21.6 to 26.4V DC
	Including	power voltage fluctuation (24V DC rating)
Power consumption	: a) AC type	: Less than 13 VA (at 100V AC)
		Less than 19 VA (at 240V AC)
	b) 24V AC t	ype : Less than 11 VA
	c) 24V DC 1	type : Less than 340 mA
Momentary power failue	e: Not affected	d by power failure less than 20 msec.
Memory backup	: Backed up by	y non-volatile memory.
	Date retainin	g period : Approx 10 years
"FAIL" output	: Check item	: MCU trouble, MCU supply voltage trouble, Watchdog
		timer, EEPROM error, Input circuit trouble, Adjust-
		ment error, Sensor break
	Output	: Relay contact output 250V AC 1A Form 1a
		(Resistive Load) Abnormal time open
	Display	: "FAIL" LED light on.
Ambient temperature	e: 0 to 50°C	
Ambient humidity	: 45 to 85% I	RH (Non dewfall)
Net weight	: Approx. ???	? g
External dimensions	: 96 x 96 x 1	00 mm (H x W x D)
Environment	: Should be f	ree corrosive and flammable gas and dust.
Other conditions	: Free from e	xternal noise, vibration, shock and exposure to direct
	sunlight.	

Compliance with standards

CE marked UL recognized CSA certified

Model and Suffix Code

Specifications	Model and Suf	Model and Suffix Code		
Specifications	F9000 -			
Type	1 channel type	1		
1,00	2 channel type	2		
Control output (CH1)	Voltage pulse output	V		
	Current output	8		
	Not supplied (1channel type)	N		
Control output (CH2)	Voltage pulse output	V		
	Current output	8		
	24V AC/DC	3		
	100 to 240V AC	4		
	Not supplied	N		
	0 to 5V DC	4		
Analog output	1 to 5V DC	6		
(CH1)	0 to 20mA DC	7		
· · ·	4 to 20mA DC	8		
	Not supplied	N		
	0 to 5V DC	4		
Analog output	1 to 5V DC	6		
(CH2)	0 to 20mA DC	7		
(-)	4 to 20mA DC	8		
Load voltago	Lineage 100V (100 to 120V AC)	1		
Loau voltage	Lineage 200V (200 to 240V AC)	2		

Rear terminal, External dimensions and Panel cutouts

	\cap	0	
	33	22	12
2	34	23	13
3	35	24	14
4	36	25	15
5	37	26	16
6	38	27	17
	39	28	18
8	40	29	19
9	41	30	20
10	42	31	21
	43	32	A
	0		

No.	Description		
1		Ground	
2		Power	
3	100 to 240V 24V 24V	Supply	
4		FAIL	
5		Output	
6		Digital	
7		Input	
8	T/R(A) — RS-485	Communications	
9	T/R(B)		
10	_	Feedback	
11		Input	
No.	Description		
40			
41		Analog	
42		Output	
43			



N	0.	Description	
22	12		Control
23	13		Output
24	14		
25	15	NO	Alarm Output
26	16		
27	17		
28	18		
29	19	****	
30	20		Measured
30 31	20 21	RTD	Measured Input
30 31 32	20 21 A	RTD	Measured Input



25 92^{+0.8} Unit : mm

Power feedback transformer





* Maximum

Before operating this product, read the instruction manual carefully to avoid incorrect operation.
This product is intended for use with industrial machines, medial equipment test and measuring in a reas subject to high humidity. Ambient humidity should not be lower than 50°C
In areas subject to high humidity. Ambient humidity should not be lower than 45% or higher than 85% RH
Direct contact with water.
Hazardous areas containing explosive or flammable gases.
Vibration or shock.
Areas subject to electrical noise caused by inductive interference, static electricity or magnetic fields.

