Microjet Recorder-E



Inkjet technology, previously available only on expensive printers, is now available on a strip chart recorder at an affordable price, a price that falls below the cost of some dot matrix type printers. If you note the comparison between the dot matrix and inkjet typeface, there simply is no reason to use a dot matrix type recorder anymore.

- This recorder has basically 2 models, user programmable model and factory configuration model.
- Factory can pre-configure recorder parameters with customer supplied information prior to shipment, reducing the users' total installation cost and time.
- In case of 1 or 2 continuous recording, 2-color type Ink cartridge (PHZH2002) is also available.
 Since its life-span became longer than before, you can cut
- the running-cost in 1/4-1/2.Real time clock (calendar) function is available with standard specification.

Specification Summary

Model		PHE1	PHE2	PHE7, 8, 9								
Chart width/	length	100mm/15m										
No. of input	channel	1	2	6								
Signal type		TC (J, K, E, R, B, S, T, L, U, W, PN, N), RTD, DC V (± 50mV, ± 500mV, ± 5V, ± 50V DC), DC mA										
Input/Record	ding range	User programmable or factory configuration										
Measuring o	ycle	200m:	30s/all point with input scanning relay									
Accuracy	Display Accuracy	(± 0.3% + 1 digit	DC current input)									
Accuracy	Analog trace Accuracy	Display accuracy \pm 0.2% of measuring range										
Display			LED (7 segments x 6 digits)									
Chart speed		10/20/24/30/50/120	10/20/24/30/50/120/200/300/ 400/1000/1200/1500 mm/h									
Recording c	ycle	Recording cycle (sec.) = Char Recording cycle is n	30s/all point									
	During analog recording	Channel No., Periodic data, Scale, Alarm, Burnout, Date and Time										
Printing function	Independent of analog recording	Instantaneous value list, Parameter list, Scale list, Test Pattern										
	Other	Recording start mark, Chart speed change mark										
Alarm		L/LL, H/L, H/HH										
Ontion	Alarm output	2 relay output	4 relay output	6 relay output								
option	Remote control	Chart speed change										
Power supp	ly	100-120V AC or 200-240V AC										
Environmen	tal	Temperature: 0 to 50°C IEC IP50 Humidity: 20 to 80%RH (Temp. (°C) x Humi. (%RH) < 3200)										
Mass {weigh	nt} Approx.	1.2kg (without option)	1.2kg (without option)	1.5kg (without option)								



User programmable model

123	4	5	6	7	8	-	9	10	11	12	13	
PHE		0	0		2	-	V	V		Е	۷	Description
	1 2 9											 Recording points 1 continuous recording 2 continuous recording 6 intermittent recording
				1 2 3 4								 Power Supply · Temperature Unit 100 to 120V AC 50/60Hz °C 200 to 240V AC 50/60Hz °C 100 to 120V AC 50/60Hz °F 200 to 240V AC 50/60Hz °F
												Alarm output/external control input (1 point)
									0			 Without
									1			 2 points alarm output (1 continuous only)
									2			 4 points alarm output (2 continuous only)
									3			 6 points alarm output (6 intermittent only)
									A			 2 points alarm output/External control (1 continuous only)
									в			 4 points alarm output/External control (2 continuous only)
									С			 6 points alarm output/External control (6 intermittent only)
	Input : Universal (Programmable)											

Range : Field settable (Programmable)

Note) 1. Input signal

Setting prior to delivery is as follows;

• Thermocouple K: 0 to 1200°C

2. Shunt resistor (10 ± 0.1%) should be ordered separately for current input. Shunt resistor : Ordering code PHZT 1101

Factory configuration model 1 2 3 4 5 6 7 8 9 10 11 12 13 P H E _____2 ______Y ______Y ______Y

4	5	6	7	8	9	9	10	11	12	13	
				2	- L					Υ	Description
1 2 7 8											 Recording points 1 continuous recording 2 continuous recording 6 intermittent recording (single scale) 6 intermittent recording (double scale)
	*	*									Input signal 1 continuous * Y 2 continuous * Y 6 intermittent (single range) * Y 6 intermittent (double range) * * Symbols of input signals X B thermocouple R R thermocouple S S thermocouple K K thermocouple E E thermocouple J J thermocouple W W thermocouple N N thermocouple W W thermocouple L L thermocouple U U thermocouple P PN thermocouple H Pt100 A 1 to 5V DC B 4 to 20mA DC *1
											A 1 10 50 DC B 4 to 2011 DC T C 10 to 50mA DC *1 M ± 50mV DC O ± 500mV DC O ± 500mV DC V ± 5V DC F ± 50V DC
			1 2 3 4								 Power supply · Temperature Unit 100 to 120VAC 50/60Hz € 200 to 240VAC 50/60Hz € 100 to 120VAC 50/60Hz F 200 to 240VAC 50/60Hz F
					-	ŧ	*				measuring range1 continuous* Y2 continuous* *6 intermittent (single scale)* Y6 intermittent (double scale)* *measuring range code are specified foreach input signal.
								0 1 2 3 A B C			Alarm output/external control input (1 point) Without 2 points alarm output (1 continuous only) 4 points alarm output (2 continuous only) 6 points alarm output (6-intermittent only) 2 points alarm output/External control (1 continuous only) 4 points alarm output/External control (2 continuous only) 6 points alarm output/External control (6 intermittent only)
									Y E	Y Y	Instruction manual Not attached English

Note) Recorder will be shipped with 10 shunt resistor attached to terminal for current input. For intermittent double scale type, 2 kind of recording range and unit should be specified. One is for channel 1 to channel 3, the other is for channel 4 to channel 6.

Outline diagrams

