ELECTRONIC MINI-RECORDER

MODEL ES6 \Box

The ES600 is a compact industrial analog recorder using 60-mm wide chart paper. Even with its compact size of 96x 144 mm, it has functions comparable with a large-size recorder including a highly reliable automatic parallel system, easy-to-install fanfold recording chart paper, etc. There are two recording systems, pen type recorders have one-point continuous recording and dot printing type recorders are available which record a maximum of six points. Thermocouples, DC voltages/currents, resistance thermometers and thermistors measuring inputs are available which enable the recording of temperatures, various industrial units, signal voltages and currents.

■ GENERAL SPECIFICATIONS

PERFORMANCE SPECIFICATION



MODEL ES600

GENERA	LSFECIFICATIONS		
Input signal	: mV: More than 10 mV DC span,	Series mode rejection :	50 dB or more
	less than 50 V span	•	
	Thermocouple: K, T More than 250°C span	ratio	
	E, J More than 200°C span	Insulation resistance	: Between measuring terminals and ground
	R More than 1000°C span		terminal: 500 V DC, 20 M Ω or more
	Resistance thermometer: (Pt100, JPT100)		Between power terminals and gmund
	More than 50°C span		terminal: 500 V DC, 20 M Ω or more
	Thermistor: More than 50°C span		Between measuring tenninals and power
	(at room temperature)	Withstand voltage	tenninals: 500 V DC, 20 M Ω or more : Between measuring termInals and ground
Scale width	: 60mm	WithStand Voltage	terminal: 500 V AC for 1 minute
-	cy: ±1.0% of input span		Between power terminals and ground
Dead band	: 0.4% of input span		tenninal:1000 V AC for 1 minute
Balancing speed	: Approx. 2.0 sec (50 Hz), 1.6 sec (60 Hz) for		Between measuring terminals and power
	full-scale movement	D	terminals: 1000 V AC for 1 minute
Chad paper	: Fanfold type, effective width 60mm,	Power consumption	: Approx. 7 VA
B	total width 73 mm, total length 10 m	Casing	: Front door: ABS plastic
Recording points	: Pen type; 1 pen	Color	Flange and rear case: ABS plastic : Gray
	Dot printing type; 4 types with 1, 2. 3 and	Mounting	: Panel mounting
Recording system	6 points I : Pen type: Cartridge pen continuous	Weight	: Approx.1.7kg
need any eyetem	recording (color: red)		·
	Dot printing type: Ink pad dot printing with	MODELS	
	each point in a different color		
	Dot printing color:	ES6QQ-QQ	
	point: red		
	points: 1 red, 2 blue		- Input 1 : Thermocouple 2 : Resistance thermometer
5	points: 1 red, 2 blue, 3 green points: 1 red, 2 blue, 3 green, 4 violet,		3 : Thermistor
0	5 purple, 6 brown		8 : Current or voltage
Chart speed	: 10, 20 mm/b and fast feed		o i cultent di voltage
Dot printing interv	al Approx. 10 sec		Alarm 0 : None
Pen lift	: Mânual		1 : High/Low limit5
(Pen-writing type)			2 : High limit
Power supply	: 100, 110, 120, 130, 200, 220, 230,	1	3 : L.ow limit*
i olici ouppiy	or 240 V AC, 50/60 Hz		
Allowable voltage	\pm : +10% to -10% of rated value		- Number 01: 1 pen
fluctuations			of points 1D: 1dot
Ambient temperat	ure : -10°C to 50°C		02: 2dots
Ambient humidity	: 30 to 90% RH		03: 3dots
	I : mV input, thermocouple input: 1K Ω or less		06: 6dots
	e Resistance thermometer input: less than		
	10 Ω per wire		
input resistance	: Approx. 8 MΩ		Functions mared* are optional.
Max. common mod	de : 200 V AC		1
voltage			
Common mode	: 100 dB or more		
rejection ratio			

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STANDARD SCALE

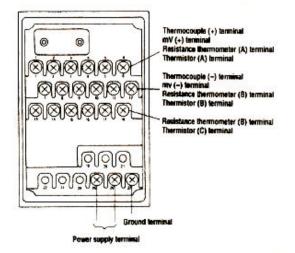
Input		Standard scale			
Ţ	R	0 to 1400(50)	0 to 1600(50))	
ler	K	0 to 250(5)	0 to 300 (I0)	0 to 600 (20)	
ы		0 to 800(20)	0 to 1200(20)		
Thermocouple	E	0 to 200(5)	0 to 300 (W)		
ldr	J	0 to 300(10)	0 to 400(10)		
œ	I	0 to 250(5)	0 to 300(10)		
MV		0 to 10 (0.2)	0 to 20(0.5)	0 to 100(2)	
		-5 to 5 (0.2)	-10 to 10 (0.5)	-50 to 50 (2)	
		0 to 1V (0.02V)		5V)	
mA		4 to 20mA (0.5	imA)		
Resistance		0 to 50(1)	0 to 100(2)	0 to 150(5)	
thermometer		0 to 200 (5)	0 to 300(10)	-20 to 30(1)	
Pt100		-20 to 80(2)	-30 to 70(2)	-50 to 50(2)	
JPt100		-50 to 100(5)	-100 to 50(2)	.,	
Thermistor		0 to 100(5)	0 to 200(5)		

Unit is °C. mV is used only for mV inputs. () shows 1 graduation.

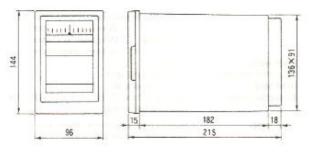
OPTIONS

Option name	Contents		
Chart speed	Variable between 5 mtMi to 400 mm,ft		
Dot interval	Approx. 5 sec.		
Alarm	Alarm system: High limit (Low limit) type or High/Low limit type Setting accuracy: ±1% of input span Deadband: 0.6% of input span Contact capacity:Resistance load 100V 05A, 200V 02A Alarm signal: On-off make-contact signal		
	 Manual switching to double scale Double scale classified by positions 		
Burnout	In case input is interrupted, indicated value will be beyond high limit (or low limit)		
Portable type	With handle and feet		

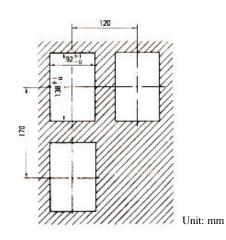
TERMINAL BOARD



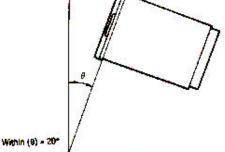
EXTERNAL DIMENSIONS



Panel cutout and mounting interval



INCLINED MOUNTING



Specifications subject to change without notice. Original 2000.12

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