Paperless Recorder Advanced Recorder ARF106/112

ARF106/112 Paperless Recorders feature a highly visible 5.6-inch TFT color LCD, incorporate advanced functions, are easy to use, and are network-compatible.

A sampling rate of 100 ms for all 12 channels and a precision of $\pm 0.1\%$ are achieved, and measured data can be stored in internal memory or on a CF (CompactFlash) card. Ethernet compatibility enables monitoring in a web browser running on PCs on the network. Also, the ARF can send (or the user can retrieve) data files by FTP, and the ARF can send notifications by e-mail. An option allows connection to, and data collection from, Network Instrumentation Modules.



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Specifications

		Орео			
Input	Input type	DC voltage, DC current, thermocouple, resistance			
		thermometer detector (see Input list)*1			
Number of input channels		6 or 12			
	Input measurement cycle	Approx. 100 ms for all inputs			
Display	Display	5.6-inch TFT color LCD			
	Display type	Measurement data displays (trend display, numerical			
		value display, bar graph display)			
		Historical trend displays (can be displayed			
		simultaneously with real-time trends)			
		Information displays (alarm display, marker list, file list)			
		Settings screens (alarms, arithmetic operations,			
		memory, system, maintenance, communications, etc.)			
Recording	Internal memory	Flash memory (capacity: 4 MB)			
	External memory	CF (CompactFlash) card (capacity: 128 MB to 2 GB)			
	Recording cycle	100, 200, 500 ms*2			
		1, 2, 3, 5, 10, 15, 20, 30 s			
		1, 2, 3, 5, 10, 15, 20, 30, 60 min			
Recorded data		Measurement data: file name (group name),			
		recording start date/time, tag, measurement data,			
		alarm status, type, setting parameters			
Computation	Number of operations	Max. 44			
	Operation type	Arithmetic operations: addition, subtraction, multiplication,			
		division, residue, power			
		Comparison operations: equal to, not equal to, greater than, less			
		than, equal to or greater than, equal to or less than			
		Logical operations: AND, OR, exclusive OR, NOT			
		General functions: rounding up to nearest integer past decimal			
		point, discarding digit past decimal point, absolute value, square			
		root, power of e, natural logarithm, common logarithm			
		Integration operations: analog integration, digital integration			
		Channel data operations: operations on measured data,			
		operations on operation results			
Alarm functions	Number of settings	Max. 4 settings for each channel			
	Alarm types	Upper limit, lower limit, diff. upper limit, diff. lower			
		limit (dead band can be set), error data			

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Communication	Network	Ethernet (10BASE-T/100BASE-TX)		
specifications USB		USB1.1		
Option	Alarm relay outputs	Relay contacts are output at alarm generation and input errors		
specifications		Number of outputs: 12		
	Non-voltage contact inputs	Contact input functions: contact inputs, pulse inputs,		
	(8) + Alarm MOS relay	integration reset, marker write, start/stop record to		
outputs (8)		data file in internal memory		
		Alarm functions: relay contacts are output at alarm		
		generation and input errors		
		Number of outputs: 8		
	Network Instrumentation	Connecting Network Instrumentation Modules via		
	Module communication	Ethernet and displaying and recording of data from		
	(Ethernet)	them (Max. 16 modules)		
General	Rated power supply voltage	100 to 240 Vac 50/60 Hz		
specifications	Max. power consumption	50 VA (DO-ON in all channels, 240 Vac)		
	Weight	Approx. 2.2 kg		

- *1. DC current input is supported by adding an external reception resisto
- *2. When recording at a cycle of 100, 200 and 500 ms, up to 3 groups of 12 channels/group

When recording at a cycle of 1 s or more, up to 5 groups of 44 channels/group can be registered.

Input list

Input type			Measurement range			
DC voltage			±13.80 mV to ±2.000 V			
(Resistor divider built-in)			±5.000 V to ±50.00 V			
Input type	Symbol		Input type	Symbol		
Thermocouple	K, E, J, T, R, S, B, N, W-WRe26		Resistance	Pt100, JPt100,		
	WRe5-WRe26, PtRh40-PtRh20,		thermometer detector	Pt50, Pt-Co		
	Ni·Mo-Ni, CR-AuFe, PlatineIII, U	, L				

K, E, J, T, R, S, B, N: IEC584, JIS C1602-1995 W-WRe26, WRe5-WRe26, PtRh40-PtRh20, Platinel II, Ni·Mo-Ni CR-AuFe: ASTM Vol14.03

WRe5-26: ASTM E988-90 U (Cu-CuNi), L (Fe-CuNi): DIN43710

Resistance thermometer detector Pt100: IEC751 (1995), JI S C1604-1997, JPt100: JIS C1606-1989

Model No. configuration

Basic	Power supply	Input	Additional	Additional	Additional	Additional	Additional	Description	
model No.	voltage		function 1	function 2	function 3	treatment 1	treatment 2		
ARF106								6 inputs, CF card (128 MB) provided	
ARF112								12 inputs, CF card (128 MB) provided	
	Α							100 to 240 Vac 50/60 Hz	
		S						Standard multi-input (input cycle 100 ms)	
			0					None	
			1					12 relay outputs (1a contacts)	
			7					Non-voltage contact inputs (8) + Alarm MOS relay outputs (8)	
				0				None	
				3				Network Instrumentation Module communications (Ethernet)	
					0			None	
					-	0		None	
						D		Inspection certificate	
						T		Tropical treatment	
						В		Tropicalization treatment + inspection certificate	
						Υ		Supports traceability certification	
							0	None	

Optional Parts (Separately Sold)

Name	Model No.
CF (CompactFlash) card 128 MB	ARF910CF0128
CF (CompactFlash) card 256 MB	ARF910CF0256
CF (CompactFlash) card 512 MB	ARF910CF0512
CF (CompactFlash) card 1 GB	ARF910CF1000
CF (CompactFlash) card 2 GB	ARE910CE2000

Name	Model No.	
CF (CompactFlash) card adapter for PC	ARF910ADP000	
ARF Data Analysis Tool	ARF990DA0000	
250 Ω resistor, accuracy ±0.02%, 1 pc	81401325	
250 Ω resistors, accuracy ±0.05%, 2 pcs	81446642-001	

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DIGITAL

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RECORDERS, NDICATORES

CONVERTERS

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FLAME SAFEGUARD SYSTEM

ACTUATORS

SENSORS

