

DIGITAL PANEL RECORDER core 1001

The Digital Panel Recorder Analog Input Type allows you to input signals such as 4-20 mA or 1-5 V. This is a new concept product adopting a "Recording" function in conventional indicator. It indicates various kinds of measurement values with a single unit and supplied with a sensor power supply function and analog output as standard equipment.

Analog Input
4-20 mA, 1-5 V or other

Cost Reduction in Remote Measurement

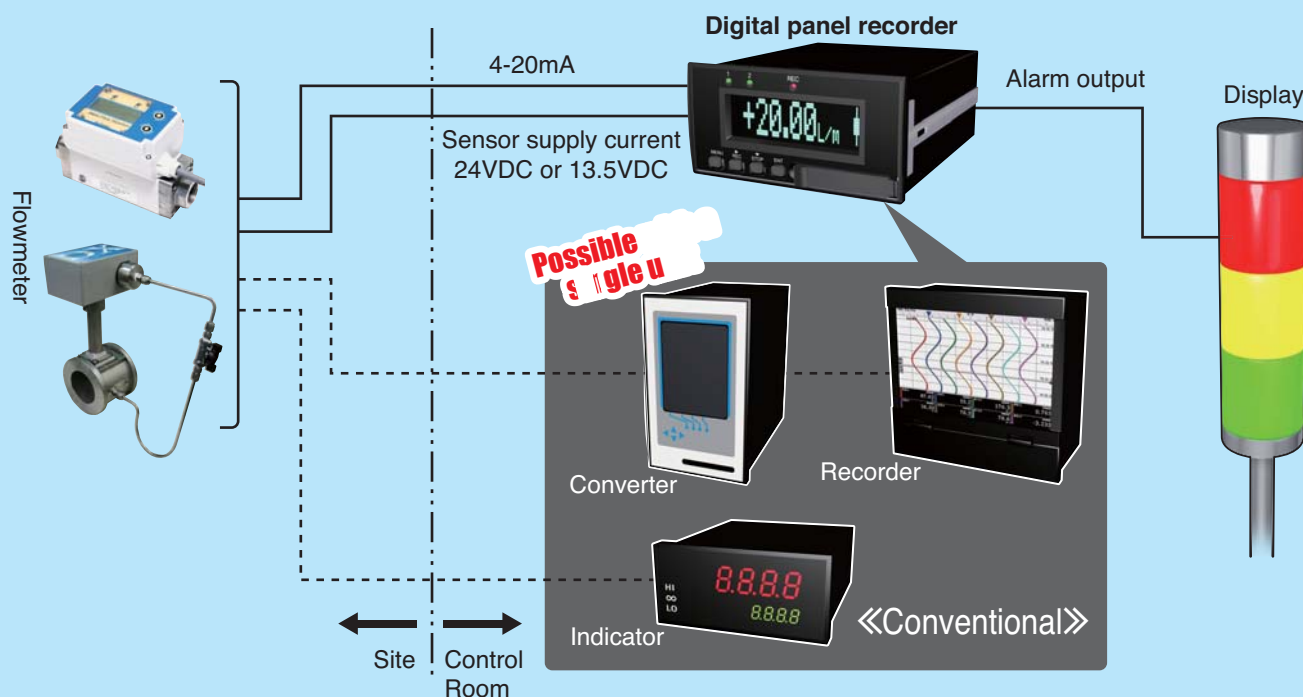
Various kinds of measurement data can be recorded in the attached microSD card.



The recorded data is saved in CSV format at intervals of 0.1s max.

A single unit can act as a relay device with other peripheral devices in remote measurement.

Various kinds of physical values can be displayed including input analog signal, differential value, and instantaneous flowrate.



● Connection to alarm, indicator light, etc. is possible.

External alarm signals are classified into two signals, Alarm 1 and Alarm 2. Upper and lower limits and contact output direction (N.O or N.C) can be set individually.

● Start and end of recording can be controlled from outside.

Start and end of recording can be controlled remotely with external trigger input signals.

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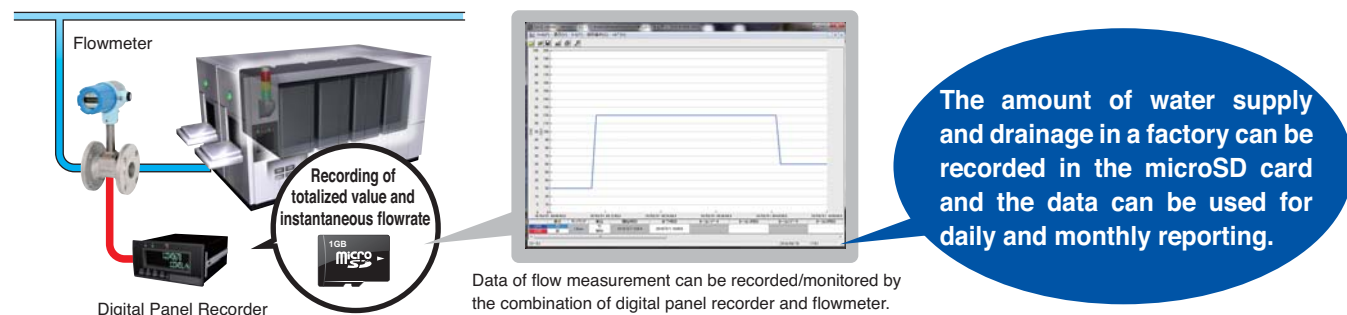
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Specifications

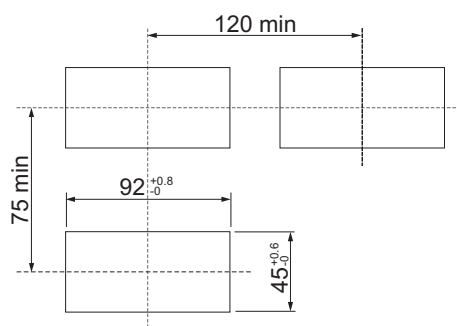
Model		core 1001-A-00-A	
	Display method	Fluorescent display tube	
Display	Display item	Rotation display with ENT key	
		(1) 5-digit instantaneous flowrate	
(2) 5-digit instantaneous flowrate and bar graph			
(3) 5-digit instantaneous flowrate and time			
Recording function		Measurement value and set value can be stored in the microSD card in CSV format.	
Sampling of recording		0.1/0.2/0.5/1/2/5/10/15/20/30sec. 1/2/5/10/15/20/30/60min ※ In the case of AD conversion, rejection ratio at 50/60 Hz is 60 dB (design value) and is effective for hum noise reduction.	
Input signal	Analog output	Resolution	D/A conversion system, 16 bit
		Measurement accuracy	±0.1% of rdg + 2digit
		Input signal	4-20mADC (Input range: 0.000 to 30.000mA) 1 to 5VDC (Input range: 0.000 to 5,500V)
	Generator power supply		13.5VDC (±10%) 50mA with overcurrent protection 24VDC (±10%) 50mA with overcurrent protection
	Trigger input terminal		Max. applied voltage: 30VDC Residual voltage at short circuit: 2V max., Current at short circuit: 2mA max.
	Output signal	Analog output	Resolution
Output signal			4-20mADC (Output range: 0.000 to 24,000mA) 1-5VDC (Output range: 0.000 to 5,500V)
Load resistance			600Ω max.
Upper/Lower limit alarm		Accuracy	±0.1% F.S
		Time constant	2.5s
		Output signal	Photo MOS-FET×2
		Capacity	400V 200mA
		ON resistance	10Ω max., Leakage current 1 μA min. at OFF
Ambient temperature		-10°C to 50°C	
Insulation resistance		50MΩ min. (500VDC mega) between analog input terminals and FG	
Withstanding voltage		1500VAC/10mA for 1 min between power terminals and FG 500VAC/10mA for 1 min between analog input terminal and FG	
Power supply		AC85 to 264V, 50/60Hz	
Power consumption		18VA	
Weight		500g	

*1: Instruction Manual and Warranty Certificate of microSD card are supplied as accessories for microSD card.

Application Example: Energy-saving management



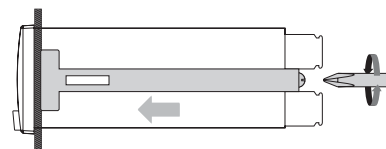
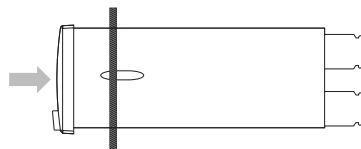
Panel Processing



Mounting

★ Insert Digital Panel Recorder into the mounting hole of the panel processed.

★ Apply the installation fixtures to both sides of the case and fix them to the panel with screws.



- Install the digital panel recorder horizontally.
- Fix the recorder to a panel of 1 to 8mm thick.
- Appropriate tightening torque for fixing screws: 0.3 $\pm$ 0.05N·m
- Do not apply excessive force when tightening screws. Otherwise,

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