

DIGITAL PANEL RECORDER  
**core 1001**

core 1001-A-00-A Digital Panel Recorder Analog Input Type

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.



**NEW**

Analog input signal  
4-20 mA, 1-5 V are supported.

## Cost Reduction in Remote Measurement

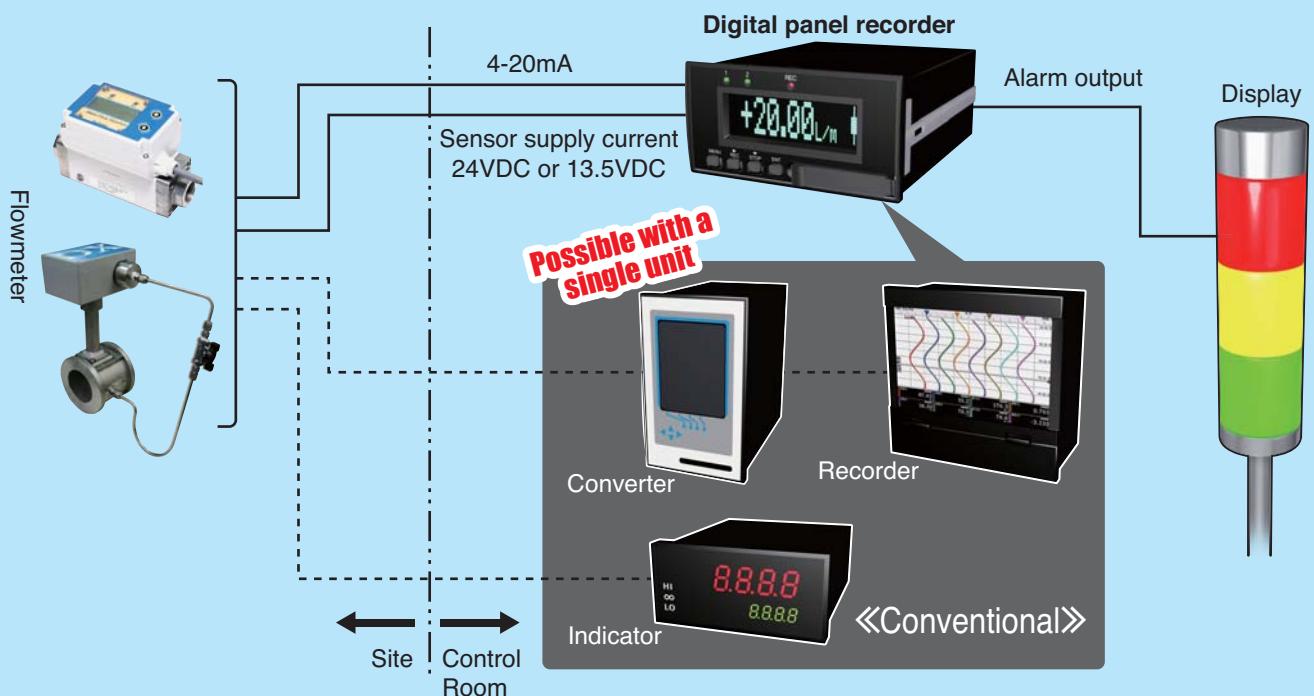


Various kinds of measurement data can be recorded in the attached microSD card.

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.

Recorded data



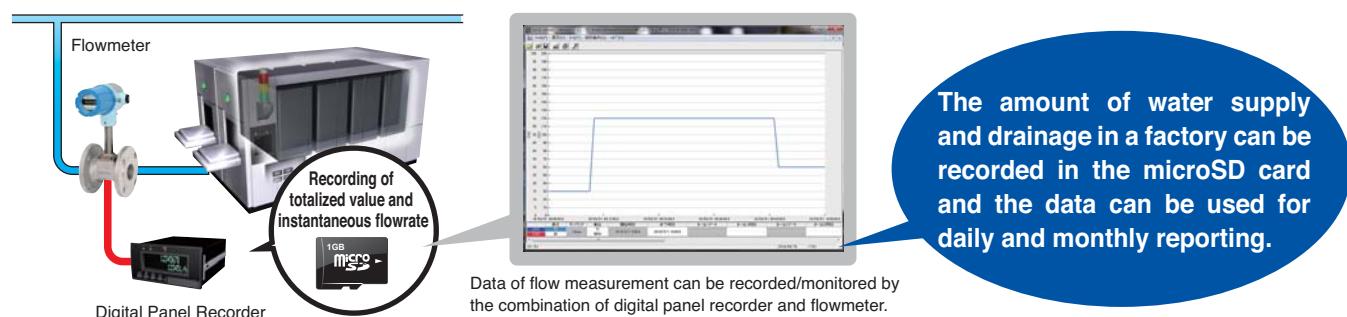
Can be used for recording the amount of water supply and drainage in a factory, for visualizing the amount of used fluids for energy saving, or for use as data for daily and monthly reporting.

# Specifications

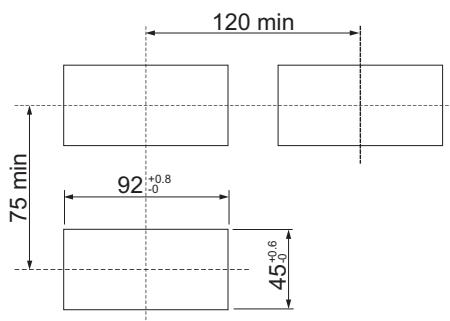
Model	core 1001-A-00-A	
Display	Display method	Fluorescent display tube
	Display item	Rotation display with ENT key (1) 5-digit instantaneous flowrate (2) 5-digit instantaneous flowrate and bar graph (3) 5-digit instantaneous flowrate and time
Recording function	Measurement value and set value can be 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 $\pm 0.1\%$ of rdg + 2digit
		Input signal 4-20mAADC (Input range: 0.000 to 30.000mA) 1 to 5VDC (Input range: 0.000 to 5,500V)
	Generator power supply	13.5VDC ( $\pm 10\%$ ) 50mA with overcurrent protection 24VDC ( $\pm 10\%$ ) 50mA with overcurrent protection
Output signal	Trigger input terminal	Max. applied voltage: 30VDC Residual voltage at short circuit: 2V max., Current at short circuit: 2mA max.
	Analog output	Resolution D/A conversion system
		Output signal 4-20mAADC (Output range: 0.000 to 24,000mA) 1-5VDC (Output range: 0.000 to 5,500V)
		Load resistance 600 $\Omega$ max.
	Upper/Lower limit alarm	Accuracy $\pm 0.1\%$ F.S
		Time constant 2.5s
		Output signal Photo MOS-FET $\times$ 2
Ambient temperature	-10°C to 50°C	
Insulation resistance	50M $\Omega$ 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



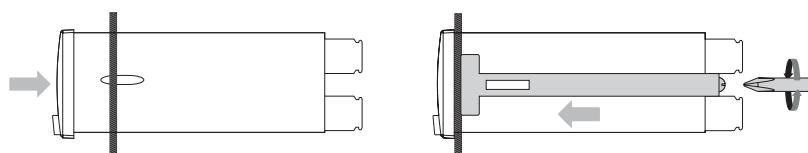
## Panel Processing



## 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:  $0.3 \pm 0.05\text{N}\cdot\text{m}$ .
- Do not apply excessive force when tightening screws. Otherwise, deformation may occur in the case or installation fixtures.



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