

SUB DIGITAL COUNTER



Counter and indicator for gas meters

Bright LED Display
 Portable, Compact Size
 Connected To Every SHINAGAWA Meters
 Analogue Output for Flow Volume
 Batch Output Available

● Strong Point

1	Compact design	Din Standard : 45mm × 45mm
2	2 tiers LED indicator	Upper : instantaneous flow rate : 4 digits in red light Lower : total flow volume : 5 digits in green light
3	Quick response	An average of frequency divide and transfer. Automatic zero function
4	High accuracy	12 bitD/A converter 0.2% F.S 1~5V/0~5VDC : Standard (4~20mA / 0~10V ; available upon request)
5	Analogue output	Recording flow volume in deta loggers is possible.
6	Batch output	Batch signal is output when volume reaches a point (need to be set)
7	Alarm for flow rate	Alarm output when flow rate reach max. and min. according to set up.
8	Pulse output	Pulse output from SUB is possible
9	Value correction	Deviation can be corrected for flow volume.
10	AC free power supply	AC85~264V, 50/60Hz, DC12/24V ± 10% is available upon request.

● Applications

1	Record analogue signal (for flow rate or volume) in data loggers.
2	Control flow volume by batch signal output.
3	Measure the time each revolution of gas meter takes.

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● Specifications

Flow rate	Accuracy	±0.05% ±1digit	
	Display	4 digits in red light height : 8mm (range : 0~9999)	
	Input converter	9999~1 × 10 (minus the power of 9 ; set optionally)	
	Decimal point	The first to third decimal place can be indicated.	
	Time unit	Can be chosen from per hour, minute or second.	
	Sampling	Indication is averaged for 0.0 ~99.9	
	Average	Pulses are averaged for 1~50	
	Frequency	Input pulse unit is divided 1/1,1/2,1/3,1/4,1/5,1/6,1/10,1/15,1/20,1/250	
	Auto-zero	Indication will be 0 when no pulse is input during 1~999 second.	
Flow volume	Accuracy	±1digit	
	Display	5 digits in green light height : 8mm (range : 0~99999)	
	Input converter	9999~1 × 10 (minus the power of 9 ; set optionally)	
	Decimal point	The first to fourth decimal place can be indicated.	
	Excess indication	When indicated figure reach max.(99999), decimal place blinks.	
	Reset	Keep pressing reset key for 10 seconds. Insert the backward terminal stand	
	In case of black out	Works for 1 month (20°C, the battery should be charged for more than 3 hours.)	
	Sensor input	Pulse	NPN open collector pulse (over MIN 10mA) or non voltage pulse. Voltage pulse ; Low ; 2.0V High ; 3.8~30V
Response limit		Hi : 0.001Hz~10kHz Low : 0.001~200Hz	
Power supply		DC+12V 60mA MAX	
Batch output	OUT1	Calculation	Comparing total flow volume to a certain value (should be set in advance), 1 shot is output when total flow volume reach the value, Output duration of a shot : 0.5 second.
		System	NPN open collector output. Maximum power supply : 30VDC 50mA
Alarm output	OUT2	Calculation	Comparing flow rate to a certain value (sould be set in advance) , alarm is output when flow rate reach max. or min. value. Alarm outpur duration : chosen from 9 levels.(10mS~2Sec)
		System	NPN open-collector on 1 level. Maximum power supply : 30VDC 50mA.
		Suspension time	Alarm is not output after turned on and reset, within the certain time. The time can be chosen from 9 levels. (1~60Sec)
Pulse Output	Calculation	One pulse is output when indicated volume figure changes.	
	Response limit	5Hz or under	
	System	NPN open-collector output : 1 level. Maximum power supply : 30VDC 50mA	
Analogue output	output	Flow rate or flow volume (selective)	
	Range	DC1~5, 0~5VDC (resistance more than 2Ω). 4~20mA and 0~10VDC output : available upon request.	
	Accuracy	±0.2%F.S以内 (23°C)	
Other specs	Pulse count mode	SUB counter does not have pulse count mode.	
	Power supply	AC85~264 50/60Hz	
	Electricity consumption	5VA	
	Temperature range	0~50°C 30~80%RH (Avoiding dew needed)	
	Weight and demension	145g W48 × H48 × D107mm	
Accessories	Adapter	Y92F-30 (Manufactured by OMRON)	
	Label	LA-133	
	Cables	AC power supply cable 2m, Sensor cable 5m	