

# SUP DIGITAL COUNTER



Counter and Indicator for gas meters

Bright LED display

Portable, Compact size

Connect to every Shinagawa meter

## ● 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	Multi-function	4 mode functions by time & pulse pre-set Also, opposite count mode which can measure one period of wave signal.
6	Alarm output	Alarm output when flow rate reach max. and min. according to set up
7	Pulse output	Pulse output is capable from the counter.
8	Value Correction	Deviation can be corrected for total flow volume.
9	AC free power supply	AC85~264V 50 / 60Hz, DC12/24V ± 10% is available upon request.

## ● Applications

1	Record analogue signal in data loggers.
2	Measure the time each revolution of gas meter takes

## ● Spec

1	Size	48 × 48 × 107 (mm)
2	Display	LED
3	Accuracy	12 bitD/A converter 0.2% F.S
4	Analogue Output	1~5V/0~5V (4~20mA/0~10V : Available upon request)
5	Alarm	Alarm output when flow rate reach max. and min. according to set up
6	Power supply	AC85~264V 50 / 60Hz, DC12/24V ± 10% is available upon request.

# SUP DIGITAL COUNTER

## ● Specifications

Flow rate	Display	4 digits in red light height: 8mm (range: 0~9999)
	Input converter	9999~1 × 10 (minus the power of 9) set by optionally
	Under decimal point	single to three figures can be indicated
	Unit	Can be chosen from per hour, minute and 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 sec

Flow Volume	Display	5 digits in green light height: 8mm (range: 0~99999)
	Input converter	9999~1 × 10 (minus the power of 9) set by optionally
	Under decimal point	single to four figures can be indicated
	Excess indication	When indicated figure reach max.(99999), decimal place blinks.
	Pulse output	Output synchronized pulse signal with flow volume figure : 1~5 figures. Output range 0.01~2 (set by optionally). Level of signal : NPN open collector output DC30V50mA (MAX).
	Reset	To keep pressing reset key for 10 seconds. To reset of inside counter, insert the back terminal stand.
	In case black out	Works for 1 month(20°C, The battery should be charged more than 3 hours)

Pulse count	Manual count	Counting frequency of the pulse in the duration following Start and Stop.
	Interval count	Counting frequency of the pulse in the duration which is set.
	Sequential count	Counting frequency of the pulse in the duration which is set repeatedly.
	Opposite count	During the setting pre-set pulse, time measures as □□min□□sec□

Sensor input	Pulse	NPN open collector pulse (over MIN 10mA) or non-voltage pulse. Voltage pulse : Low : under 2.0V, Hi : 3.8~30V
	Response limit	Hi : 0.001Hz~10kHz Low : 0.001~200Hz
	Power supply	DC+12V 60mA MAXoutput.

Alarm output	Calculation	Comparing flow rate to a certain value (could be set in advance), alarm is output when flow rate reach max. or min. value. Alarm output 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 a certain time. The time can be chosen from 9 levels. (1~60Sec)

Pulse output	Calculation	One pulse is output when indicated volume figure changes.
	System	NPN open-collector output : 1 level. Maximum power supply : 30VDC 50mA

Analogue output	Output range	DC1~5.0, 0~5 (load resistance more than 2Ω) 4~20mA and 0~10VDC output : available upon request.
	Accuracy	±0.2% F.S (23°C)

Other specs	Power supply	AC85~264 50/60Hz
	Electricity consumption	5VA
	Temperature range	0~50°C 30~80%RH (avoiding dew needed)
	Weight and dimension	145g W48 × H48 × D107mm

Accessories	Adapter	Y92F-30 (manufactured by OMRON)
	Label	LA-133
	Cables	AC Power supply cable 2m、 Sensor cables 5m (1ヶ)