



FLOW METERS 606

TYPE FOR ROTOR SENSOR WITH FLOW TUBE

GENERAL

ITEMS		SPECIFICATIONS		
Battery For Display		Lithium battery		
Battery Size		One "D" cell		
Battery Service Life	Functions State	Display Only	Transmission	Stand By
	Idle	5 years	10 years	2.5 years
	2 hr/day	4.5 years		2.2 years
	8 hr/day	3.5 years		1.7 years
	24 hr/day	2 years		1 year
Ambient Temp.		-20~+70°C 90% RH max.		
External Powered		12~30VDC for analog output 5~12V for pulse output (NPN open collector)		
Optional Protection		Class I, Gr. B,C,D : Class II, Gr. E,F,G		
Housing Material (Standard)		Aluminum alloy with epoxy coating		
Housing Rating		1080AE Encl, Type 4, 1080SE Encl, Type 4X		
Cable Entry		1/2"NPT(F) or special specified		
Mounting Style		Directly combined to flow sensor for 606A or 2" pipe stanchion mounted for 606B		
Flow tube	Material	304SS · 316SS · PP · PVDF or special specified		
	Connection	Flange · Thread · Socket · welded or specified		
Accessory		Mounting bracket for 606B		

FLOW SENSOR SPECIFICATIONS

ITEMS		CODE					
		0	1	2	3	4	5
MATERIAL	BODY	PP			PVDF		316SS
	ROTOR	PP			PVDF		CD4MCu
	SHAFT	316SS	Ceramic				316SS
	BEARING	Ceramic					Fluoridoy
	O-RING/SEAL		Viton	PTFE	Viton	PTFE	PTFE
SOLID LIMITED		5% max.					10% max.
MAX. OPERATING TEMPERATURE(°C)		60	85	105	85	105	150
MAX. OPERATING PRESSURE(Mpa)		2.0	1.4	1.0	1.4	1.0	10
FLOW VELOCITY		0.3~6 M/sec or 0.1~6 M/sec					
OUTPUT FREQUENCY		19~20 Hz/M/sec or to be specified					
OUTPUT SIGNAL		3V P-P/M/sec					
REPEATABILITY		±0.5% F.S.					
LINEARITY		1% F.S.					
POWER SUPPLY		Not Required					
VISCOSITY		400 cPs					
UNSUITED FLUID		Ferrous, Abrasive Fiber, filament or Crystalliferous liquid.					



SIGNAL CONVERTER

LCD DISPLAY

Rate display	5 Digits (99999), 9mm ^H (0.35")
Totalizer display	8 Digits (99999999), 5mm ^H (0.2")
Display updated	2 sec/cycle for rate 1 count/cycle for totalizer
Decimal setting	selectable from keys
Measure unit	/sec, /min, /HR for rate GAL, LIT, FT3, M3 for totalizer
Accuracy	0.01%±1 digit
Temp. drift	≤50 ppm/°C
Power source	Lithium battery
Warning	BAT displayed while low battery

PULSE OUTPUT

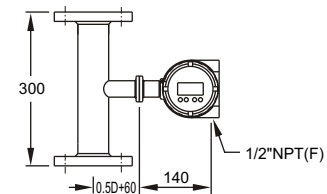
Signal form	Opto-isolated NPN open collector
Off state	30VDC max.
On state	0.1mA @1.0V drop. 5mA @1.4V drop.
Pulse duration	32msec
Output rate	8 CPS max.
Output divided	0, 1, 0.1, 0.01 selectable from keys
Field display	When the output divided is "0", the converter is only for display
K-factor	0.001~999.999 selectable from keys

ANALOG OUTPUT FOR RATE TRANSMISSION

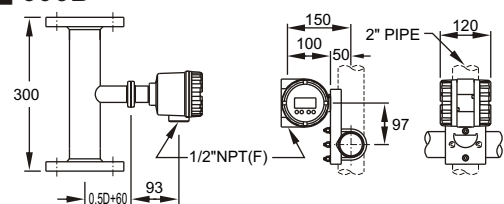
Signal form	4~20mADC, 2 wire system
Resistance load	700Ω at 24VDC
Power supply	8.5V~30VDC (External loop powered)
Accuracy	±0.15% F.S.
Temp. Drift	50~200 ppm/°C
Error prevent	Reverse polarity protected

DIMENSIONS (mm)

606A



606B



Note: Both indicating meter and mounting bracket of converter can be rotated by 90° and are suitable to be mounted on vertical/horizontal pipes.

FLOW MEASURING RANGE VS SIZE

CODE	METER SIZE	FLOW RATE (M ³ /H)		CODE	METER SIZE	FLOW RATE (M ³ /H)	
		AVAILABLE	STD.			AVAILABLE	STD.
015	1/2"	0.2~4.5	2.0	150	6"	20~450	200
020	3/4"	0.3~9.0	4.0	200	8"	30~700	300
025	1"	0.5~14	6.0	250	10"	50~1200	500
040	1-1/2"	1.5~35	15	300	12"	75~1900	800
050	2"	2.0~60	25	350	14"	100~2600	1100
065	2-1/2"	3.0~90	40	400	18"	150~3500	1500
080	3"	5.0~140	60	500	20"	220~5200	2200
100	4"	8.0~230	100	600	24"	300~7000	3000
125	5"	11~330	150	700	28"	420~9800	4200

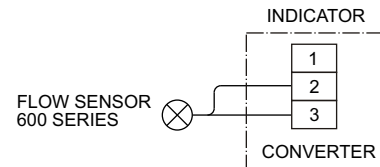
If the flow range is not specified, we will use the STD range in the table above as the calibration range before shipping.

MODEL SELECTION

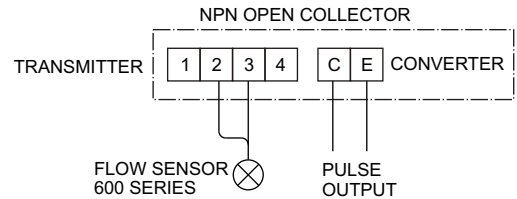
ITEMS	CODE	SPECIFICATIONS				
① MODEL	606A	SENSOR / CONVERTER COMBINED TYPE				
	606B	SENSOR / CONVERTER SEPARATED TYPE				
② FUNCTIONS	-0	Rate / Totalizer field display only				
	-1	Display with pulse output for integrator				
	-2	Display with 4~20mADC output				
	-3	To be specified				
③ MATERIAL OF FLOW SENSOR	CODE	SENSOR BODY	ROTOR	SHAFT	BEARING	SEAL / O-RING
	0	PP	PP	316SS	Ceramic	NBR
	1	PP	PP	Ceramic	Ceramic	Viton
	2	PP	PP	Ceramic	Ceramic	PTFE
	3	PVDF	PVDF	Ceramic	Ceramic	Viton
	4	PVDF	PVDF	Ceramic	Ceramic	PTFE
	5	316SS	CD4MCu	316SS	Fluorody	PTFE
6	To be specified					
④ MATERIAL OF FLOW TUBE	0	304SS	3	PP		
	1	316SS	4	PVDF		
	2	PVC	5	To be specified		
⑤ PROCESS CONNECTION	0	ANSI 150# Flange	3	NPT(F)		
	1	JIS 10K Flange	4	PT(F)		
	2	Socket / welding type	5	To be specified		
⑥ FLOW DIRECTION	-A	Horizontal				
	-B	Vertical				
	-C	Undetermined				
⑦ INSTALLATION LENGTH	A	Standard				
	B	To be specified				
⑧ ELECTRICAL HOUSING	A	Aluminum alloy w/epoxy coating , IP67 (St'd)				
	B	Aluminum alloy w/epoxy coating , 1080AE/Class I Gr.B,C,D ; Class II,Gr.EFG Encl. Type 4				
	C	316SS / IP67				
	D	316SS made , 1080SE/Class I ,Gr.B,C,D Class II,Gr.EFG Encl. Type 4X				
	E	To be specified				
⑨ CABLE ENTRY	A	Not required for field display only				
	B	1/2" NPT(F)				
	C	To be specified				
⑩ METER SIZE	-015	15A (1/2")				
	-700	700A (28")				
⑪ EXTRA TREATMENT	A	Not required (For General purpose)				
	B	High purity cleaning (HPC)				
	C	Electro-polishing (EP)				
	D	Special finished (Painting or coating)				
	S	To be specified				

WIRING CONNECTIONS

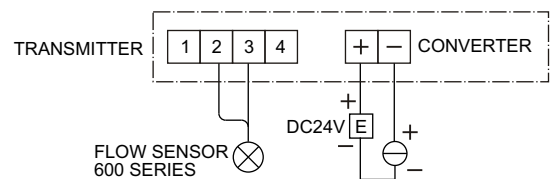
Function code : 0 (Field display)



Function code : 1 (Pulse output)

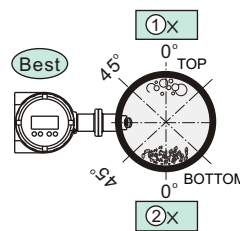


Function code : 2 (4~20mADC output)



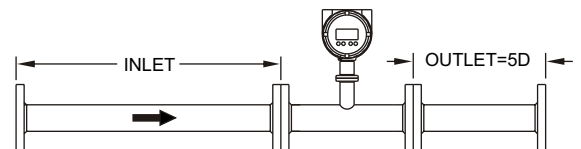
INSTRUCTIONS

THE COUNTERPLOT FOR HORIZONTAL PIPE



The sensor is unsuitable to install vertically (0°).
When ① bubbles occur at the top of horizontal piping, ② there are sediments at the bottom of the pipe, and must be installed to ±45°.

POSITION & LOCATION



OBSTACLE OF INLET	INLET LENGTH OF STRAIGHT PIPE
FLANGE / SOCKET	10D
REDUCER	15D
BUTTERFLY / BALL VALVE	15D
ELBOW / TEE	20D
PUMP / GLOBE / GATE VALE	50D

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The specifications are subject to change without prior notice.



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