GENERAL SPECIFICATIONS

TOKICO GS-F6070E

Pulse Divider (EHD30 Series)

General

This pulse divider receives the input pulse signal from the transmitter of the flowmeter and can transmit or generate the output of maximum five systems. After the wave shape of the pulse dispatched from the flowmeter is compensated in the amplifier, the pulse is divided into $1/1 \sim 1/10000$ with the following frequency division circuit and is set in a necessary unit. The divided pulse is passed through the pulse width shaping circuit and transmitted (generated) from the external terminal as a voltage pulse, an open collector or a contact pulse.



Features

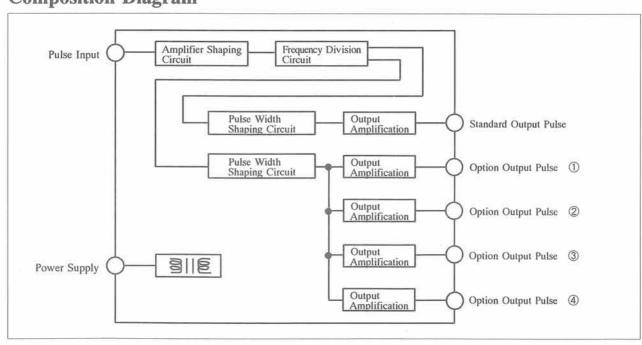
- High reliability with easy maintenance
 Because this pulse divider is designed small, light and
 compact, reliability is high and resistances is also
- compact, reliability is high and maintenance is also easy.
- Connection availability for various transmitters of the flowmeter

Because the input frequency range is wide in $0\sim500\,\mathrm{Hz}$, the pulse divider can be connected with various transmitters of TOKICO flowmeter such as the roots flowmeter and the turbine meter.

- The output can be tarnsmitted under standard spec.
- One of the voltage pulse, the open collector or the output for the counter drive can be selected as a standard specification.
- The output of maximum four systems can be tarnsmitted under option spec.

The output of maximum four systems can be voltage as an option specification, and either of the non-voltage contact pulse, the voltage contact pulse or the open collector can be selected.

Composition Diagram



Standard Specification (Transmission Unit)

Input	Connectio	n Transmitter	Corresponds to various flowmeter transmitters such as the voltage pulse, the contact pulse and the open collectors.		
Pulse	Input Free	quency	0 ∼ 500 Hz		
	Input Sen	sitivity	2.5V ^{P-P}		
	Input Imp		10 kΩ or more		
Power Su	oply for Flo	owmeter Transmitter	12 or 24V DC 50 mA		
	Number of		1		
		Frequency Division	1/1, 1/10, 1/100 1/1000, 1/10000		
		Voltage Level	$9 \sim 13V^{P-P}$		
		Voltage Drift	1V or less		
0. 1. 1	Voltage Pulse	Pulse Width	$0.2 \sim 0.4 \text{ ms}, 10 \sim 20 \text{ ms}$ $50 \sim 100 \text{ ms}$		
Standard Output		Output Impedance	10 kΩ or more		
Pulse	Open	Voltage	30V DC or less		
		Allowable Current	200 mA or less		
	Collector	Pulse Width	$0.2 \sim 0.4 \text{ ms}, 10 \sim 20 \text{ ms}$ $50 \sim 100 \text{ ms}$		
		Power Supply	24V DC		
	Counter Drive	Allowable Current	200 mA or less		
	Diive	Pulse Width	50 ∼ 100 ms		

	Number o	of Output	Max. 4	
	Ratio of I	requency Division	1/1, 1/10, 1/100 1/1000, 1/10000	
		Pulse Signal	Mercury Relay Contact	
Option Output Pulse	Contact	Voltage	30V DC or less 250V AC or less	
	Pulse	Allowable Current	200 mA DC or less 50 mA AC or less	
		Pulse Width	$10 \sim 20 \text{ ms}, 50 \sim 100 \text{ ms}$	
	Open	Voltage	30V DC or less	
		Allowable Current	200 mA or less	
	Collector	Pulse Width	$0.2 \sim 0.4 \text{ ms}, 10 \sim 20 \text{ ms}$ $50 \sim 100 \text{ ms}$	
Power	Supply		100/110V AC \pm 10% 200/220V AC \pm 10% 24V DC \pm 10%	
Ambie	nt Tempera	iture	0 ~ 50 °C	
Ambie	nt Humidit	y	10 ∼ 90% RH	
Paint C	Color		Munsell N7 half gloss	

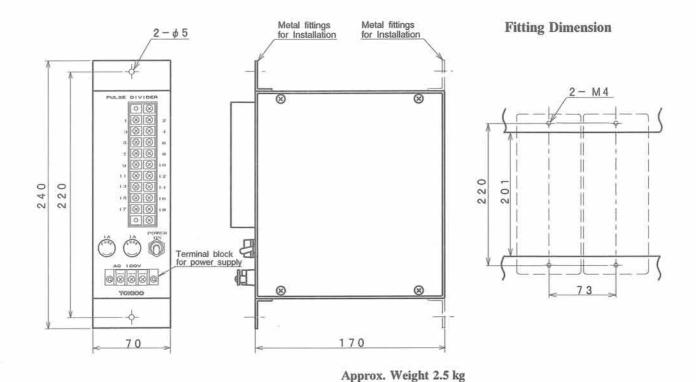
Basic Models

1 2 3	4	5	6	7	8	9	10	11	12	Contents Pulse Divider	
EHD											
	3	0									None
	3	1									1 point applying
Model	3	2								Option Pulse	2 points applying
	3	3									3 points applying
	3	4									4 points applying
			A							100V AC ±10% 50/60 Hz	
			D							110V AC ±10	0% 50/60 Hz
Power St	pply		G					i i		200V AC ±10% 50/60 Hz	
			J							220V AC ±10% 50/60 Hz	
			W							24V DC ±10%	
				-							
20.000000000			According		1					Open Collector / Counter Drive	
Standard	Out	out	Puls	e	2					Voltage Pulse	
						X				None (Standard)	
						1				Non-voltage Contact Pulse	
Option C	hitnu	t Pi	ilse(D		2				Voltage	24V DC
Option C	dip					3				Contact Pulse	Power Supply
						4				Open Collector	
							X			None (Standard)	
							1			Non-voltage Contact Pulse	
Option C	outpu	t Pt	ılse(2			2			Voltage	24V DC
Marie San							3			Contact Pulse	Power Supply
							4			Open Collector	
								X		None (Standard)	
								1		Non-voltage Contact Pulse	
Option (utpu	it Pi	ilse	3				2		Voltage	24V DC
Option Output Pulse®						3		Contact Pulse	Power Supply		
								4		Open Collector	
								-	X	None (Standard)	
								1	Non-voltage Contact Pulse		
Option Output Pulse								2		24V DC	
								3	1	Power Supply	
						4					

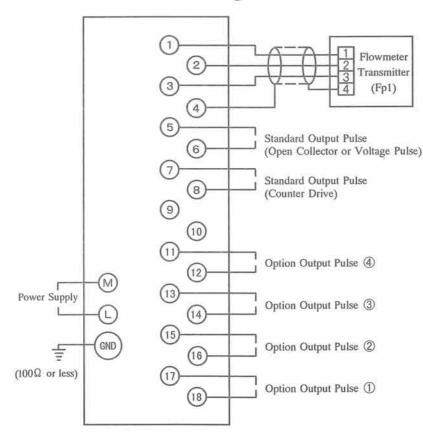
	13	14	15	16	17	Conte	ents
	Н					Transmitter of Positive Displacement	Fp 5 Type
	J						Fp 1 Type
Connection	K					Flowmeter	Fp 12 Type
Transmitter	R					C	Micro Switch
	S					Contact Pulse	Lead Switch
	U					Open Collector	
		Е					1/1
Ratio of		D					1/10
Frequency		C				Standard Pulse	1/100
Division		В				The bear of a Lindburg way and a	1/1000
	A						1/10000
			X				None
			Е				1/1
Ratio of			D				1/10
Frequency Division	1		C			Option Pulse	1/100
Division			В				1/1000
			Α				1/10000
				S			0.2 ~ 0.4 ms
Pulse Width T				Standard Pulse	10 ∼ 20 ms		
U				U			50 ~ 100 ms
NAME OF TAXABLES AS					X		None
					S	Option Pulse	0.2 ~ 0.4 ms
Pulse Width			T	10 ~ 20 ms			
					U		50 ∼ 100 ms

Note) Only one of the open collectors, the counter drive and the voltage pulse can be selected as a standard output pulse.

Dimension Drawing



Terminal Connection Diagram



- Note 1) Please refer to the operating manual, excluding the transmitter of flowmeter is Fp1 type.
- Note 2) Only one of the open collectors, the counter drive and the voltage pulse can be selected as a standard output pulse.
- Note 3) If the power source is 24V DC, Please connect "+24V" with

 M terminal and "0V" with

terminal.

- Note 4) Please use the shield wire for the signal line and avoid parallel wiring and the same duct or bundle with the power line so that the signal is not influenced by electromagnetic induction or electrostatic induction, etc.
- Note 5) Please use CVVS 1.25 mm² or more for a shield line.

Ordering Instructions : Please specify the undermentioned specification.

	Item	Contents						
1	Applied Flowmeter	Model (Maximum Flow /)						
2	Flowmeter Transmitter	Model	(□2-Wire Type, □3-Wire Ty	ype)				
3	Input Pulse	Unit	/ (Maximum Pulse Freque	ency Hz)				
4	G: 1 1 0 4 1 D.I.	Signal						
5	Standard Output Pulse	Unit	/ , Pulse Width	ms				
6	0 : 0 : 101	Signal	, Number of Output					
7	Option Output Pulse	Unit	/ , Pulse Width	ms				
8	Power Supply							

*Please read "Instruction Manual" often without fail before use, and use the flowmeter correctly. *Please acknowledge that the content of the description is occasionally changed without notice.

MEASURING EQUIPMENT & SYSTEMS

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