

# FREQUENCY SCALER

AT-740- FCR  
FDR

Model : AT-740-    -   -

FCR	Adjust with K value
FDR	Adjust with K & N value

Input	
1	Voltage Pulse
2	Open collector
3	Relay Contact

Output	
1	Open collector
2	5V Voltage Pulse
3	No Voltage Contact Relay
4	12V Voltage Pulse
S	Specified

Power Supply

1	AC 110V ± 10% 50 / 60 Hz
2	AC 220V ± 10% 50 / 60 Hz
3	DC 24V ± 10%
4	AC 24V ± 10% 50 / 60 Hz
S	Specified

## Input Signals :

- ◆ Voltage Pulse : 200 mV - 20 V ( P-P )
- ◆ ON-OFF Pulse : Open collector / Contact  
OFF : 8 V ON : 1 mA

## Output Signals :

- ◆ Open collector : 30 VDC , 50 mA Max.
- ◆ Voltage Pulse : 5 V / 12 V Pulse
- ◆ No Voltage Contact Relay : 2 Hz Max.  
Max. AC 120 V / 1A ( COS θ = 1 ) , DC 24 V / 2A  
Pulse Width : 80 ms

## No. of Output Pulse ( P<sub>o</sub> ) :

- ◆ FCR Type

$$P_o = \frac{(\text{No. of Input Pulse})}{(1 + K)}$$

- ◆ FDR Type

$$P_o = \frac{(\text{No. of Input Pulse}) \times N}{(1 + K)}$$

N : 0.1 ~ 0.9 (Internal Adjust) K : 1 ~ 9999 (Panel Adjust)

## Option :

- ◆ Power for Sensor : Max. DC 8V/25 mA
- ◆ Synchronous Pulse Output : 8V Pulse or Open Collector



W 50 × H 84 × D 120 mm

## Features :

- ◆ Scale Factor K is selected by Rotary Digital Switches
- ◆ Multiplier N is defined by Dip Switch
- ◆ Plug-in Socket Structure and DIN Rail Mounting
- ◆ Inside Jumper can be Selected for Varies Input Signals

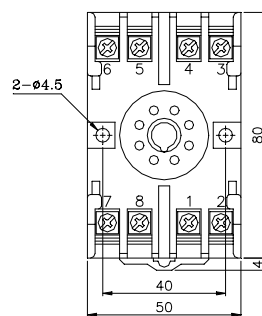
## Applications :

- ◆ Scaling Factor for Pulse Measuring Unit
- ◆ Totalizing Flowmeter or Counter

## Specifications :

- ◆ Input Frequency : 0 - 10 KHz
- ◆ Digit Adjustment : 4 Digit
- ◆ Scaling Factor : N / (1+K)  
FCR Type N = 1
- ◆ Digital Switch : K Value ( 4 Digit , 1 ~ 9999 )  
N Value ( 1 Digit , 0.1 ~ 0.9 )
- ◆ Operating Temp. : -5 ~ +55 °C
- ◆ Operating Humidity : 0 - 90% RH
- ◆ Insulation Resistance :  
≥ 100 MΩ with 500 VDC ( Input / Output / Power )
- ◆ Dielectric Strength :  
AC 1500 V , 1 min. ( Input / Output / Power )
- ◆ Case Material : Case is ABS , Base is Bakelite
- ◆ Power Consumption : 4 VA

## Socket and Terminal :



1	+	OUT	Pulse Output
2	-		
3	+	IN	Pulse Input
4	-		
5	+		Option
6	-		
7	U(+)	PWR	Power
8	V(-)		