General Specifications

MODEL MQ1
Pulse/Analog Transmitter

JUXTA

Model MQ1 Pulse/Analog Transmitter has function of distrubutor and converts input pulse train signal into isolated DC current or voltage signal. Input pulse is available for voltage pulse, dry voltage contact or open collector contact.

- 12V or 24V DC power supply to pulse generator is installed.
- Filter can be internally set when receiving much chattering signal. (2000V AC high voltage proof is available upon request)

Input/Output Specifications	
Input signal	Dry voltage contact pulse, voltage pulse or current pulse
Input resistance	When contact or voltage pulse : More than 10kΩ When current pulse : Internal load resistance value
Internal load resistance	200Ω, 510Ω, 1kΩ (Select by internal switch)
Power voltage be supplied to pulse generator	Specify either 12V DC or 24V DC (Voltage is fixed at time of shipment)
Input frequency	0～F_{90}Hz whereas 50Hz ≦F_{90}≦10kHz
Pulse height	Low level (VL) : −1～+8V High level (VH) : More than 2V VH−VL = 2～50V
Input pulse width	Pulse width so as Duty would be within 50±30% when 100% input
Output signal	DC current or voltage signal
Permissible load resistance :	

Output range		Output Range	
4～20mA DC :	Less than 750Ω	0～ 10mV DC :	More than 250kΩ
2～10mA DC :	" 1500Ω	0～100mV DC :	" 250kΩ
1～ 5mA DC :	" 3000Ω	0～ 1V DC :	" 2kΩ
0～20mA DC :	" 750Ω	0～ 10V DC :	" 10kΩ
0～16mA DC :	" 900Ω	0～ 5V DC :	" 2kΩ
0～10mA DC :	" 1500Ω	1～ 5V DC :	" 2kΩ
0～ 1mA DC :	" 15kΩ	−10～+10V DC :	" 10kΩ

Zero point adjustment range	±5% of span
Span adjustment range	±5% of span
Standard Performance	
Accuracy rating	±0.3% of span (at range more than input 10%)
Response Speed	600 ms : More than 500Hz span 3.0 sec. : Less than 500Hz span Both case 63% response (10～90%)
Isulation resistance	100MΩ (at 500V DC) between input～output～power supply～ground
Voltage withstand	1500V AC/1 minute between input～output～power supply～ground
Temperature range	0～50°C
Humidity range	5～90%RH (no condensation)
Power supply voltage	85～264V AC 47～63Hz or 12～48V DC
Effect of power supply voltage fluctuation	Less than ±0.1% of span for 85～264V AC or 12～48V DC
Effect of change in ambient temperature	Less than ±0.2% of span for 10°C change
Current dissipation	24V DC 150mA
Power dissipation	100V AC 6VA, 200V AC 12VA
Mounting, Shape and Accessories	
Material	Case ABS plastic
Mounting method	Wall or DIN rail mounting (More than 5mm interval is required for access mounting)
Connecting method	M3.5 screw terminal
External dimension	85x50x123mm (HxWxD) (including socket)
Weight	Body: approx. 250g, Socket: approx. 60g
Accessoires	Spacer ..... 1 (Use for DIN rail mounting)

MQ1−□□−□*A

MODEL

INPUT
- 1: Tramsmitter power supply (12V)
- 2: Transmitter power supply (24V)

OUTPUT

Current Signal	Voltage Signal
A: 4～ 20mA DC	1: 0～ 10mV DC
B: 2～ 10mA DC	2: 0～ 100mV DC
C: 1～ 5mA DC	3: 0～ 1V DC
D: 0～ 20mA DC	4: 0～ 10V DC
E: 0～ 16mA DC	5: 0～ 5V DC
F: 0～ 10mA DC	6: 1～ 5V DC
G: 0～ 1mA DC	7: −10～ +10V DC
Z: (CUSTOM ORDER)	0: (CUSTOM ORDER)
Refer Table 1	Refer Table 1

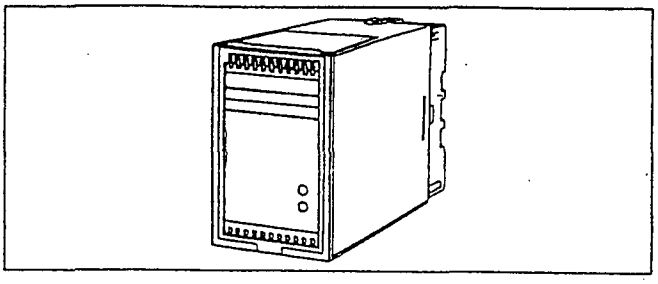
POWER SUPPLY
- 1: 12～48V DC
- 2: 85～264V AC

ORDERING INFORMATION		
● Model Code	: (Example)	MQ1-26-2*A
● Input Frequency	: (Example)	0～1000Hz

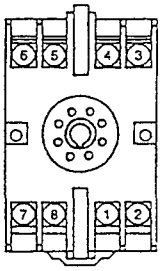
CUSTOM ORDER SPECIFICATIONS

Table 1 Manufacturable Range

Input Range	0～10kHz	
Span	50Hz～10kHz	
Zero Elevation	0% only	
	Currnet Signal	Voltage Signal
Output range	0～24mA DC	-10～+10V DC
Span	1～24mA DC	10mV～20V DC
Zero Elevation	0～200%	-100～+200%

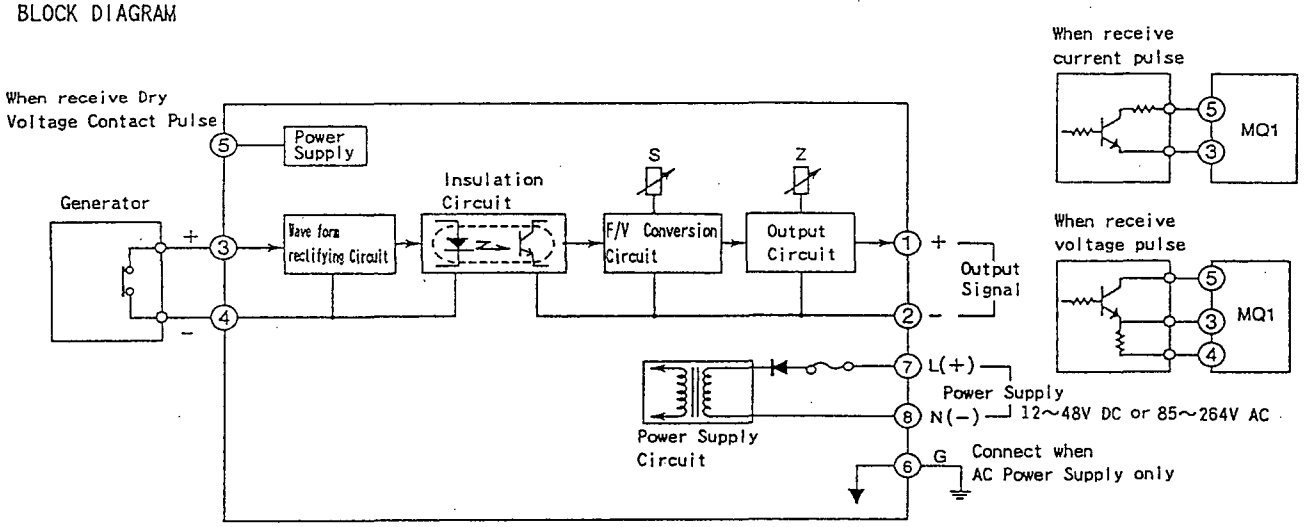


TERMINAL ARRANGEMENT



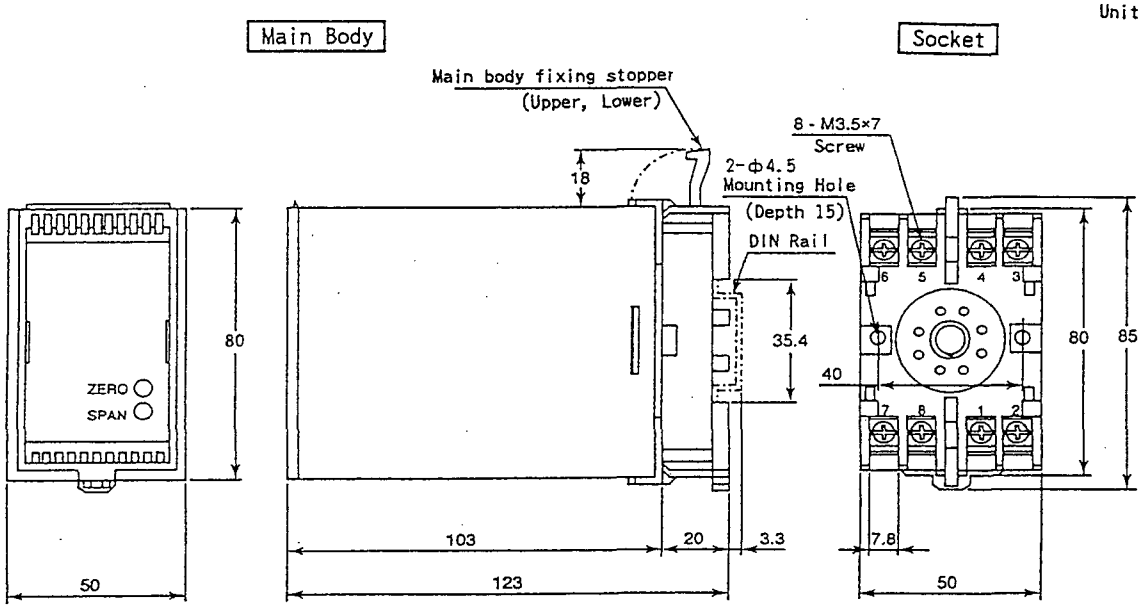
1	OUTPUT	(+)
2	OUTPUT	(—)
3	INPUT	(+)
4	INPUT	(—)
5	INPUT	(PS+)
6	GND	(G)
7	SUPPLY	(L+)
8	SUPPLY	(N—)

BLOCK DIAGRAM



EXTERNAL DIMENSION

Unit : mm



Subject to change without notice for grade up quality and performance