General Specifications

Model GD5
Tachometer Transmitter

Scott

Model GD5 Tachometer Transmitter inputs various voltage signals from tacho-generator and converts it into various voltage or 4～20mA DC signals.

- Input signal of DC voltage from low speed or AC voltage from high speed tacho-generators can be received.
- Measuring range can be selected easily through short-socket.

GD5-□*A

MODEL

INPUT SIGNAL
Combination with DC Generator
(0～4V DC)～(0～150V DC)
Combination with AC Generator
(0～15Hz)～(0～1000Hz)
Use either one of above

OUTPUT SIGNAL
1 : 0～10V DC
2 : 0～5V DC
3 : 0～1V DC
4 : 0～100mV DC
5 : 0～10mV DC
6 : 1～5V DC
7 : 4～20mA DC
Z : CUSTOM Order

POWER SUPPLY
20～130V DC/80V～130V AC
AC/DC use

ORDERING INFORMATION
- Model Code : (Example) GD5-1*A
- Input : (Example) 0～500Hz

RELATED EQUIPMENT
- HB Type Transmitter Storing Box

Input & Output
Input signal : signal from tacho-generator
Measuring Range : Combination with DC generator : (0～4V DC)～(0～150V DC) Select 6 sections through short socket Combination with AC generator : (0～15Hz)～(0～1000Hz) Select 4 sections through short socket
Input resistance : AC input : 100kΩ DC input : 40kΩ
Permissible input voltage : AC input 0～100V*1, DC input 0～150V *1 : Less than 40mVAC is lowcut and output becomes 0%
Output signal : DC current or voltage signal
Zero adjust range : ±5% of span
Span adjust range : ±5% of span
Standard Performance
Accuracy rating : Combination with DC generator : ±1% Combination with AC generator : ±0.3% for span 100Hz or more $\pm\{0.3+(100-F_{100})\times 0.008\}$%(max) for span 100Hz or less
Response speed : 3.0s 63% response (10～90%)
Signal insulation : Input signal, output signal, power supply circuit
Insulation resistance : More than 100MΩ (at 500V DC) between input～output～power supply～ground
Withstand voltage : 1000V AC/minute between input～output～power supply～ground
Ambient temperature : 0～50℃
Ambient humidity : 5～90% RH (no condensation)
Power supply voltage : AC/DC use, 20～130V DC (no polarity), 80～138V AC, 47～63Hz
Effect of power voltage fluctuation : Less than ±0.1% of span for fluctuation of 20～130V DC, 80～138V AC
Effect of ambient temperature change : Less than ±0.2% of span for 10℃ change
Power dissipation : 100V AC Drive 8.2VA 24V DC Drive 167mA

Mounting, Shape & Accessories	
Mounting method	Rack mounting
Connecting method	M4 screw terminal connection
External dimension	148x27x244mm (HxWxD)including socket
Weight	About 310g
Accessories	Spare fuse 0.5A ... 1 Tag number label .. 4

Output Resistance and Allowable Load Resistance

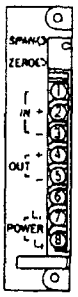
DC Current Output Type		
Output Signal	Output Resistance	Allowable Load Resistance
4～20mA DC	5MΩ or more	0～ 750Ω
2～10mA DC		0～1500Ω
1～ 5mA DC		0～3000Ω
0～20mA DC		0～ 750Ω
0～16mA DC		0～ 900Ω
0～10mA DC		0～1500Ω
0～ 1mA DC		0～ 15KΩ
Others, I_{100} is 24mA or less		$(15/I_{100})$Ω or less

I_{100} : 100% output current value

DC Voltage Output Type			
Output Signal		Output Resistance	Allowable Load Resistance
0～10mV DC		100Ω or less	250KΩ or more
0～100mV DC		1Ω or less	
0～1V DC			2KΩ or more
0～10V DC			10KΩ or more
0～5V DC			2KΩ or more
1～5V DC			2KΩ or more
-5～+5V DC			2KΩ or more
Others, V_{100} is 10V or less	$V_{100}\leqq 100mV$	100Ω or less	250KΩ or more
	$V_{100}>100mV$	1Ω or less	10KΩ or more

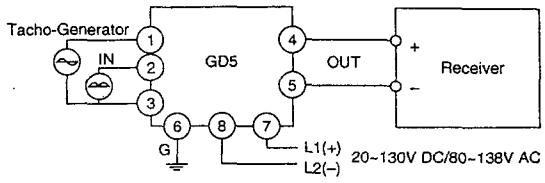
V_{100} : 100% output voltage value

TERMINAL ARRANGEMENT

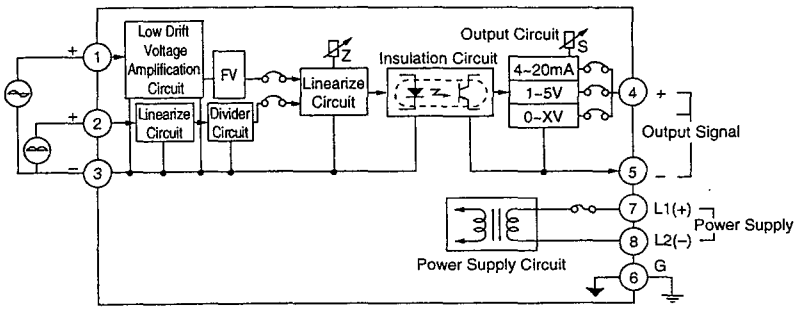


1	INPUT	(+)
2	INPUT	(+)
3	INPUT	(−)
4	OUTPUT	(+)
5	OUTPUT	(−)
6	GND	G
7	SUPPLY	L1(+)
8	SUPPLY	L2(−)

WIRING

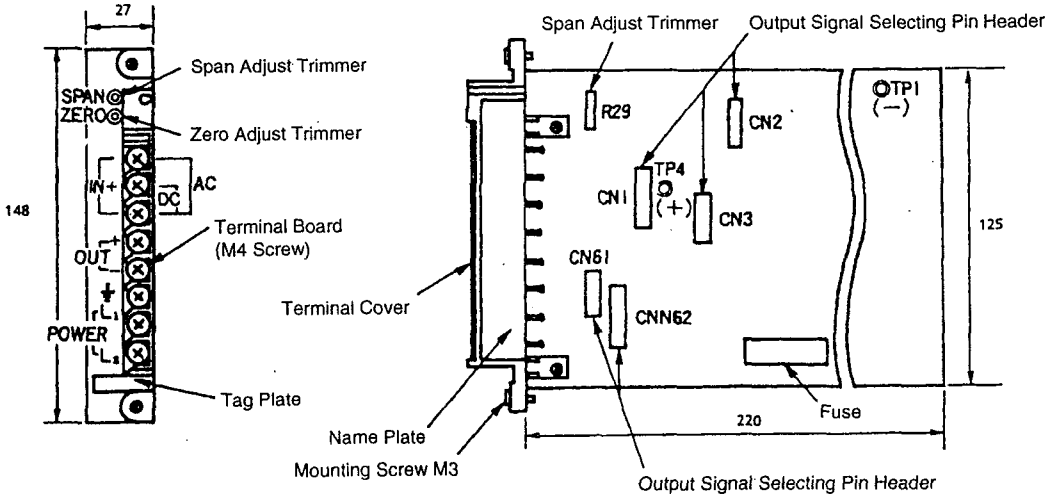


BLOCK DIAGRAM



EXTERNAL DIMENSIONS

Unit: mm



Subject to change without notice for grade up of quality and performance