

# GYHC Controller

## High Performance Analogue Controller

GYHC controller outputs 0~10V or 4~20mA proportional to magnet position and velocity (option).

Associating with GYcRS, GYMR5 and GYFRS probe, the resolution is 1/65536(16bit).

A toggle switch on front face permits a fine adjustment for zero and gain.

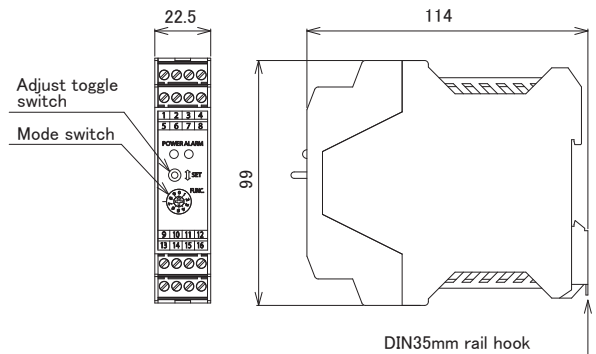


### Specifications

Resolution (position output)	16bit (1/65536) (Probe: GYcRS, GYMR5, GYFRS) 0.01%FS (Probe: GYGS, GYPM, GYHR, GYcRP)
Temp drift	±10ppmFS/°C
Position output (OUT1) (OUT2: Option)	0~10V (output current: Max.5mA, load: Min.2kΩ) or 4~20mA (load: Min.500Ω)
Velocity output OUT2 (Option)	±10V or 4~20mA
Alarm output	Open collector 0.1A 30VDC (Cable disconnection and magnet drop)
Power supply	Standard: +24VDC ±5% (< 150mA) Option: +15VDC ±5% (< 250mA) (Note1)
Frequency resp.	Std 1kHz (depending on stroke) sampling
Operating Temp	0°C ~ +65°C
Storage Temp	-20°C ~ +85°C

• The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.  
(Note1) This option is limited depending on probe type and effective stroke.

### Dimensions



### Model No.

GYHC-①-②③④⑤-⑥/⑦-⑧-⑨

#### ① Probe

RS: GYcRS probe  
RP: GYcRP probe  
R5: GYMR5 probe  
FS: GYFRS probe  
GS: GYGS probe  
PM: GYPM probe  
HR: GYHR probe

#### ② Effective stroke (mm)

#### ③ Dead zone length of probe head side (mm)

#### ④ Analogue Position Output (OUT1)

AD	0~10V (Std)
AR	10~0V
BD	4~20mA
BR	20~4mA
CD or CR□□ (bipolar output) [ex] CD10 CR05	□□V~□□V -10V~+10V +5V~-5V
V Z/F [ex] V1/5 V9.5/0.5	custom order 1~5V 9.5~0.5V
I Z/F [ex] I5.12/20 I20/5.38	custom order 5.12~20mA 20~5.38mA

※Z=Zero position  
F=Full scale position

(Note2)

VA: When magnet stops, output is 0V. When moving toward probe tip, +10V.  
WB: When magnet stops, output is 4mA. When moving in any direction, 20mA.

#### ⑤ Option: Analogue output (OUT2)

• Position: see ④  
• Velocity (Note2)  
VA[ ] ±10V [ ]: max velocity  
WB[ ] 4~20mA (1.00~999mm/sec)  
• N: No option (ex.9R99: max velocity=9.99mm/sec)

#### ⑥ Power supply

24S: +24VDC (Standard)  
15S: +15VDC (Option)

#### ⑦ Magnet and Float

M0 : No.Φ magnet  
M0SM : No.Φ SPM magnet  
M0LM : No.Φ LPM magnet  
M2P : No.2P magnet  
M2PN : No.2PN magnet  
M3 : No.3 magnet  
M11 : No.11 magnet  
M11N : No.11N magnet  
T142 : No.T14-M2 magnet  
T144 : No.T14-M4 magnet  
T162 : No.T16-M2 magnet  
T163 : No.T16-M3 magnet  
MG□ : other magnet  
F28S : Φ28SS316 float  
F30S : Φ30SS316 float  
F40S : Φ40SS316(B) float  
F42S : Φ42.5SS316 float  
F50S : Φ50SS316 float  
F54S : Φ54SS304 float  
F25N : RF-A10 plastic float  
F28N : RF-A6 plastic float  
FL□ : other float