

## EX-GYdS-R Probe

RS422

### Terminal box head, flameproof enclosure, with controller



EX-GYdS-R probe is a level or displacement transducer of the flameproof enclosure type which has GYcRP circuit inside. An explosion protection symbol is Exd II CT6, and you can use it in the most of the explosive gas atmosphere.

Form official approval pass symbol : No. TC14614 (rod diameter  $\Phi 10$ ), No. TC14615 (rod diameter  $\Phi 13.8$ )

### Specifications

Accuracy	Non-linearity	$\leq \pm 0.05\%FS$ TYP
	Resolution	(analogue) $\leq 0.01\%FS$ (digital) Min.0.1mm
	Repeatability	$\leq \pm 0.01\%FS$
	Temp. drift	$\leq \pm 50ppmFS/^{\circ}C$
Environment	Max. Pressure	35MPa (probe rod)
	Operating temp.	$-20^{\circ}C \sim +60^{\circ}C$
	Storage temp.	$-40^{\circ}C \sim +80^{\circ}C$
	Vibration	6G (or 40Hz 2mmPP)
	Shock	50G (2msec)
	IP grade	IP65
	Explosion-proof symbol	Exd II CT6

• The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.

The specification of stroke less than 300mm is equal that of stroke 300mm.

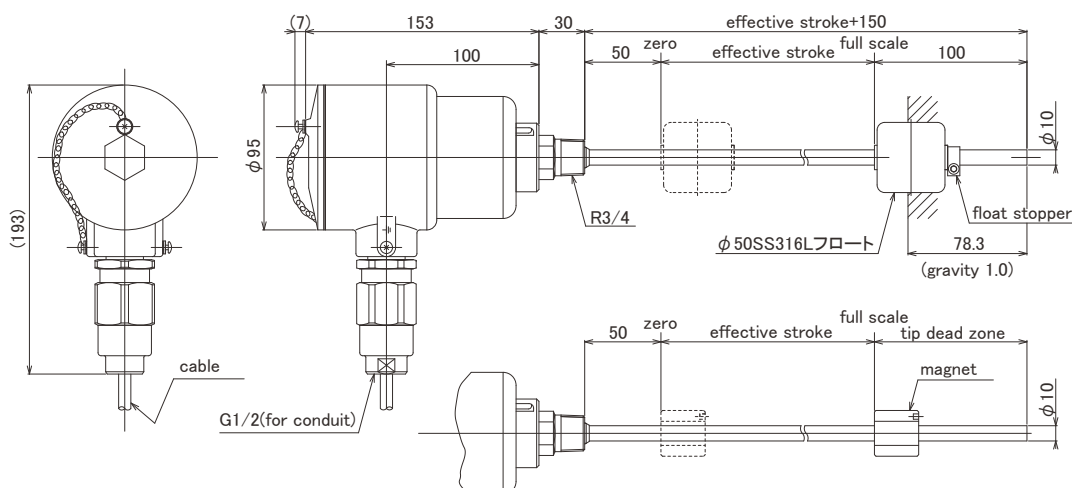
• Resolution depends on associated controller.

#### ◆ associated controller

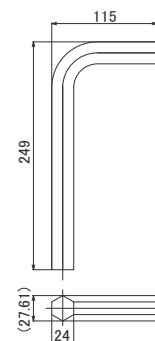
- analogue output : GYHC (page 52, 53), GYFC2\*3 (page 54, 55)
- digital output : GYDC-S1 (page 56, 57), GYDC-05 (page 58, 59)
- IRDS-GY (page 61) : When using the IRDM, you can connect with CC-Link, CC-Link IE Field, PROFIBUS, EtherNet/IP, and EtherCAT.
- DC-Q (page 60) : MELSEC-Q built-in unit

### Dimensions

#### ■ Probe



◆ probe head opener  
When this probe head is opened, the performance of flameproof enclosure has lost. Special tools are needed to open probe head because the probe head won't be opened by mistake at a dangerous place.



- Material: probe head: Al die-cast, probe rod: SS316
- Select one magnet from group B (holder material : metal) on page 110.
- The tip dead zone length depends on the selected magnet or float.
- Cables aren't attached. Please use a twisted pair cable with a lumping shield more than 8 cores.
- Cable length : max. 200m

## ■ Probe

**EX-GYdS-R□-□-D(RP□-□/□-□-□ZZ)**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

### ① Rod diameter

10:  $\Phi$  10  
14:  $\Phi$  13.8

### ② Total rod length

□: □mm

### ③ Effective stroke

15mm~5000mm

### ④ Head dead zone

S: 50mm(STD)

□: □mm(option)(specified by customers)

• Possible Min. length depends on the selected magnet or float.

### ⑤ Tip dead zone

S: 70mm/100mm(STD)

• S (STD length) depends on the selected magnet or float in ⑥.

tip DZ	magnet	float
70mm	BA, AS	
100mm	T142, T162	F40S, F42S, F50S F54S

□: □mm(option)(specified by customers)

• Possible Min. length depends on the selected magnet or float.

### ⑥ Associated magnet or float

<magnet>

T142 : T14-M2  
T162 : T16-M2  
BF : No.2SI3-14

<float>

F40S :  $\Phi$  40SS316(B)  
F42S :  $\Phi$  43 SS316L  
F50S :  $\Phi$  50SS316L  
F54S :  $\Phi$  54SS304

### ⑦ Cable diameter

10:  $\phi$  8~ $\phi$  10  
12:  $\phi$  10~ $\phi$  12

### ⑨ Output

ZZ: depends on external controller