

EX-GYdS-A Probe

Analogue

Terminal box head, flameproof enclosure, analogue output



EX-GYdS-A probe is a level or displacement transducer of the flameproof enclosure type which has GYCAT 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 $\Phi 13.8$)

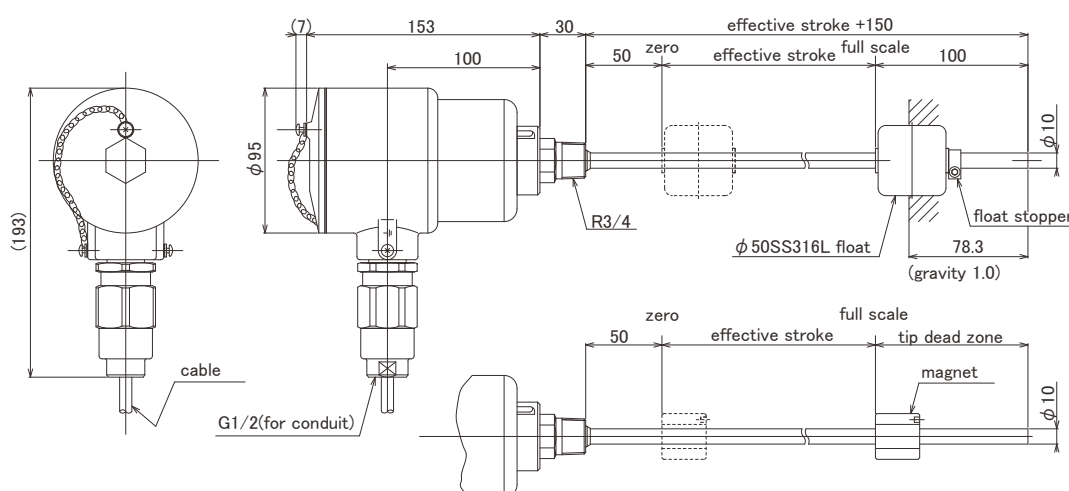
Specifications

Accuracy	Non-linearity	$\leq \pm 0.05\%FS$ TYP
	Resolution	$\leq 0.01\%FS$
	Repeatability	$\leq \pm 0.01\%FS$
	Temp. drift	$\leq \pm 40ppmFS/^{\circ}C$
Output	Voltage output	0~10V or 10~0V (output current : Max.5mA, load : Min.2k Ω)
	Current output	4~20mA or 20~4mA (load : Max.500 Ω)
	Alarm	Open collector 30V 0.1A
Power supply		+24(± 2)VDC (50mA)
Sampling freq.		STD 1kHz (total rod length : up to 1250mm)
Environment	Max. Pressure	35MPa (probe rod)
	Operating temp.	-20 $^{\circ}C$ ~+60 $^{\circ}C$
	Storage temp.	-40 $^{\circ}C$ ~+80 $^{\circ}C$
	Vibration	6G (or 40Hz 2mmPP)
	Shock	50G (2msec)
	IP grade	IP65
Explosion-proof symbol		Exd II CT6

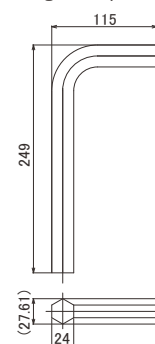
• The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.
The specification of stroke less than 300mm is equal that of stroke 300mm.

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 5 cores.
- Cable length : max.10m (voltage output), max.100m (current output)

■ Probe

EX-GYdS-A□-□-D(AT□-□/□-□-□□)

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Rod diameter

10: Φ 10
14: Φ 13.8

② Total rod length

□: □mm

③ Effective stroke

15mm~3500mm

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	BF	
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 : Φ 40SS316(B)
F42S : Φ 43 SS316L
F50S : Φ 50SS316L
F54S : Φ 54SS304

⑦ Cable diameter

10: ϕ 8~ ϕ 10
12: ϕ 10~ ϕ 12

⑧ Position output

AD: 0~10V (When magnet moves toward tip, output increase.)
AR: 10~0V (When magnet moves toward tip, output decrease.)
BD: 4~20mA (When magnet moves toward tip, output increase.)
BR: 20~4mA (When magnet moves toward tip, output decrease.)