

GYHTR Probe

RS422

High ambient temperature (120°C),
high accuracy type(detachable probe element)



GYHTR probe is designed to operate at high ambient temperature up to 120°C, including sensor head. Between probe and controller, RS-422 differential line driver transmission, providing robustness against electrical noise, is used. The inside probe element can be detached from the outer housing.

Specifications

Accuracy	Non-linearity	$\leq \pm 0.1\%FS$ (Min. $\pm 50 \mu m$)
	Resolution	(analogue) 16bit (digital) Min. $50 \mu m$
	Repeatability	$\leq \pm 0.05\%FS$
	Temp. drift	$\leq \pm 70ppmFS/^{\circ}C$
Environment	Max. Pressure	35MPa (probe rod)
	Operating temp.	$-5^{\circ}C \sim +120^{\circ}C$
	Storage temp.	$-40^{\circ}C \sim +120^{\circ}C$
	Vibration	15G (20~100Hz)
	Shock	100G (2msec)
	IP grade	IP67

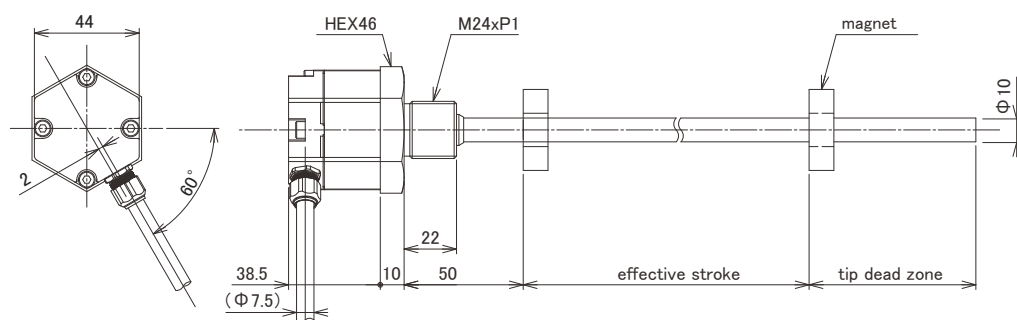
- The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.
- The specification of stroke less than 300mm is equal that of stroke 300mm.

◆ associated controller

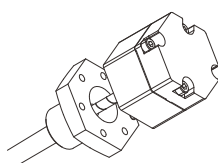
- analogue output: GYHC (page 52, 53)
- digital output: GYDC-S1 (page 56, 57), GYDC-05 (page 58, 59)
- IRDS-GY (page 61) : When using the IRDM, you can connect with CC-Link, CC-Link IE Field, PROFIBUS, EtherNet/IP, and EtherCAT.
- DC-Q (page 60) : MELSEC-Q built-in unit

Dimensions

■ Probe



■ Detachable probe element



- materials : probe head : Al alloy, probe rod : SS304
- magnet : Select one from group GG on page 110.
- The tip dead zone length depends on the selected magnet or float.

■ Cable

Wire color	Function
red	Sensor power
white	0V
blue	Start(-)
green	Start(+)
brown	Stop(-)
black	Stop(+)
yellow	N.C.

- shield should be connected to shield terminal of the controller.

