

## GYcRP Probe

RS422

### High performance probe



Between probe and controller, RS-422 differential line driver transmission, providing robustness against electrical noise, is used. In combination with a digital output controller, Min.1  $\mu$ m resolution is possible. SRT option and probe rod 200°C option are available.

### Specifications

|             |                 |                                                                          |
|-------------|-----------------|--------------------------------------------------------------------------|
| Accuracy    | Non-linearity   | $\leq \pm 0.05\%FS$ TYP                                                  |
|             | Resolution      | (analogue) $\leq 0.01\%FS$ (with GYHC)<br>(digital) 0.1mm (with GYDC-05) |
|             | Repeatability   | $\leq \pm 0.01\%FS$                                                      |
|             | Temp. drift     | $\leq \pm 50ppmFS/^{\circ}C$                                             |
| Environment | Max. Pressure   | 35MPa (probe rod)                                                        |
|             | Operating temp. | $-20^{\circ}C \sim +80^{\circ}C$                                         |
|             | Storage temp.   | $-40^{\circ}C \sim +80^{\circ}C$                                         |
|             | Vibration       | 6G (40Hz 2mmPP)                                                          |
|             | Shock           | 100G (2msec)                                                             |
|             | IP grade        | IP67                                                                     |

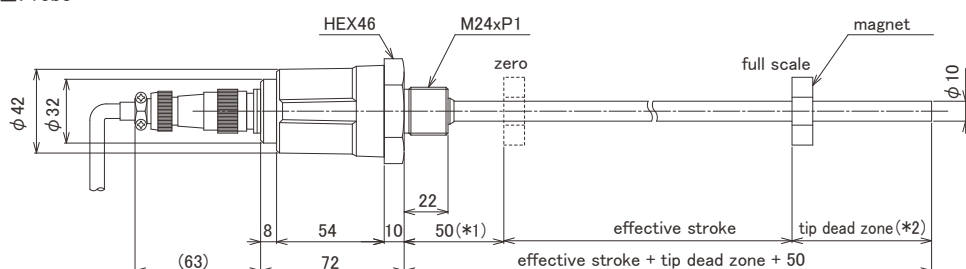
- The above mentioned accuracy applies to sensors with an effective stroke of 300mm or more.
- The specification of stroke less than 300mm is equal that of stroke 300mm.

#### ◆ associated controller

- analogue output: GYHC (page 50-51), GYFC2-3 (page 52-53)
- digital output: GYDC-S1 (page 54-55), GYDC-05 (page 56-57)
- IRDS-GY (page 59) : When using the IRDM, you can connect with CC-Link, CC-Link IE Field, PROFIBUS, EtherNet/IP, and EtherCAT.
- DC-Q (page 58) : MELSEC-Q built-in unit

### Dimensions

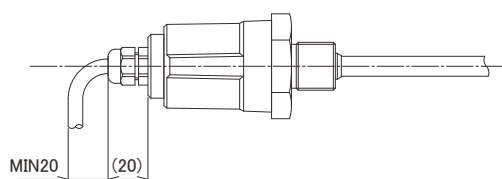
#### ■ Probe



\*1) In case of an effective stroke 3001mm or more, head dead zone is 100mm. (Model code ② : 100)

\*2) In case of an effective stroke 3001mm or more, tip dead zone is "standard length + 30mm". (Model code ③ : 100/120/130)

#### ■ Pigtail type (Option)



- materials ; Probe head : Al alloy, Probe rod : SS304
- magnet : Select one from group B on page 109
- The tip dead zone length depends on the selected magnet or float.
- Connector: Sanwa SNW-1607-PCF (Material: zinc alloy fluoroplastic)

#### ■ Cable

| Cable color | Pin number | Function     |
|-------------|------------|--------------|
| red         | 1          | Sensor power |
| yellow      | 2          | N.C.         |
| white       | 3          | 0V           |
| green       | 4          | Start(+)     |
| black       | 5          | Stop(+)      |
| blue        | 6          | Start(-)     |
| brown       | 7          | Stop(-)      |

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

