

# EG34 (EGX20000-A1/EGX20200-A1)

## Magnetostrictive Level Transmitter Operation Manual

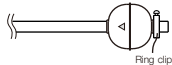
### INSTALLATION RECOMMENDATION

- Power supply 5-30 Vdc.
- This product has been adjusted before leaving the factory. Please do not change magnetic float to avoid effect on measurement accuracy.
- Magnetostrictive level transmitter is a measuring device with high accuracy. The pipe body cannot be bent to avoid damage to measurement accuracy, or even improper operation.
- Please do not change the float specifications of the product, to avoid any effects on the normal operation of the product.
- User can install the product directly without having to take off the float, when the connection hole at site is bigger than the float diameter.
- Please take off the float before installation, when the connection hole is smaller than the float diameter. When installed, the float shall be reinstalled according to the factory direction (the mark on the float has to be facing towards the product enclosure).
- The stopper has to be fixed well on the probe score and fastened.
- Please do not drop the magnetic float, to avoid magnet breakage inside the float.
- Do not pressure the product with heavy weight, to bend the probe. If the probe is bent and cannot work, please send back to us for calibration.
- Package by bubble bag or foam is necessary to ensure safety during transportation.
- Please do not open the product enclosure to assure measurement accuracy

### INSTALLATION METHOD IF THE FLOAT HAS TO BE TAKEN OFF BEFORE INSTALLATION

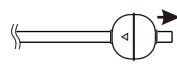
#### Step 1 :

Loosen the ring clip at stem end



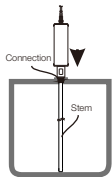
#### Step 2 :

Take off the float.



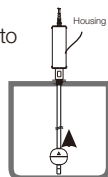
#### Step 3 :

Install the product itself into the tank, and screw the connection well.



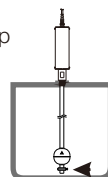
#### Step 4 :

Put back the float onto the stem by specific direction mark on the float has to be toward the housing



#### Step 5 :

Screw the ring clip well on the stem

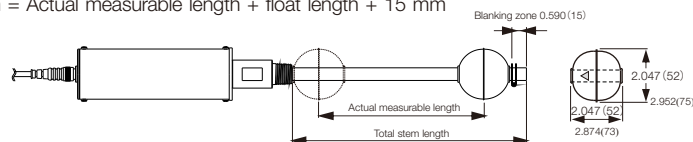


### Instructions for actual measurable length in advance:

The relationship between the stem length of and the actual measurable length is shown in the illustration below.

Total stem length = Actual measurable length + float length + 15 mm

For example:



Total stem length= 500mm (Actual measurable length) + 73mm (S5 float)+15mm =588mm

※ the float ball varies in size depending on different options.

### SAMPLE SPECIFICATIONS

- Power supply: 5-30VDC
- Measuring range:50mm-5500mm
- Sampling rate: 500 times per second
- Linearity (precision um): 50mm or 500mm@±100um  
501mm or 2500mm@±0.02%FS  
2501mm or 5500mm@±0.04%FS
- Repeatability: 0.002%FS
- Hysteresis degree: 0.004%FS
- Communication interface: RS485
- Environment temperature: -40~85°C
- Operating temperature: -40~125°C
- IP degree: IP67(enclosure)/IP69K(probe)

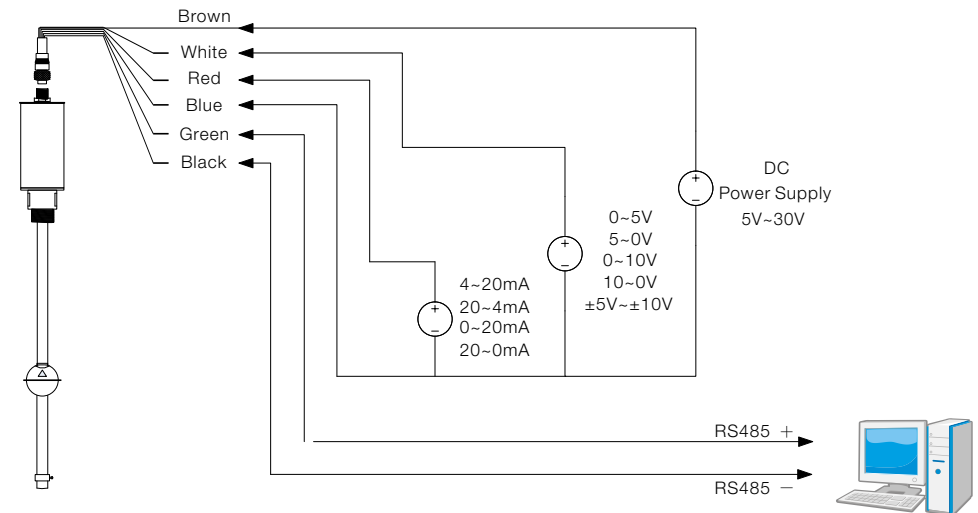
### VOLTAGE OUTPUT

- Voltage output: 0-10V 10~0V,0~5V 5~0V  
± 9 f 9
- Maximum output load current: MAX 5mA

### CURRENT OUTPUT

- Current output: 4~20mA 20~4mA  
0~20mA 20~0mA
- Maximum load: (VS-5) / 0.02 Ω  
VS=Supply voltage

### WIRING DESCRIPTION



## MODBUS TABLE

	Name	Address(Hex)	Address(Dec)	Data Types	Quantity	Unit/Code	Definition
1	FineTek ID	0x1000	4096	STRING	1	FINE-TEK	READ
2	Product Type	0x1004	4100	UINT16	1	EG	READ
3	Product Number	0x1005	4101	UINT16	1	0x0005	READ
4	Product Version	0x1006	4102	UINT16	1	0x0001	READ
5	Float 1 distance	0x1007	4103	FLOAT	1	1mm	READ
6	Float 2 distance	0x100a	4106	FLOAT	1	1mm	READ
7	Measurable Range	0x1010	4112	FLOAT	1	1mm	READ
8	Display Percentage 1	0x1026	4134	FLOAT	1	%	READ
9	Display Percentage 2	0x1028	4136	FLOAT	1	%	READ
10	Temp Value	0x102a	4138	FLOAT	1	°C	READ WRITE
11	MODBUS ID	0x102c	4140	UINT16	1	ID=1	READ WRITE
12	MODBUS BAUDRATE	0x102d	4141	UINT16	1	BAUD=9600	READ WRITE
13	Float 1 High Limit	0x1034	4148	FLOAT	1	1mm	READ WRITE
14	Float 1 Low Limit	0x1036	4150	FLOAT	1	1mm	READ WRITE
15	Save System Var to EEPROM	0x1054	4180	UINT16	1	Set up value = 1 (save setting)	READ WRITE
16	Save Calibration Setting	0x1057	4183	UINT16	1	Set up value = 1 (save setting)	READ WRITE

## WARRANTY

### New Product Warranty

Our product warranty period is 12 months from the date of dispatch. During this period in case of any malfunction, company don't charge for testing, components and repair.

In case the product is defected or damaged during transportation, customers are advised to report matter with 7 days.

Company will bear repair charges or replace defected product.

While sending back defected products for repair, please send back the complete set without any tearing. Send the defected product using appropriate safety packaging in order to avoid transportation damage.

Warranty will not be covered on the following conditions:

1. After expiry of warranty period.
2. Not following operation manual or operation conditions such as using product over operation temperature or pressure etc.
3. Product damage due to nature disaster such as flood, fire, earthquake, lightening, typhoon etc..

There will be a maintenance fee for products that are not covered by the warranty.



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