

# EG32 (EGX20000-A1/EGX20200-A1)

## Magnetostrictive Level Transmitter Operation Manual

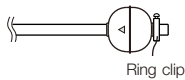
### INSTALLATION

1. Power supply is 18Vdc~30Vdc.
2. Sensor can be directly top mounted if the size of the connection hole is bigger than the diameter of the float. If the connection size is smaller float needs to be dismantled during mounting.
3. In case the diameter of the float is bigger than connection size, firstly dismantle float and mount. While installing back the float needs to be the right direction. Float have a mark showing correct direction to be mounted.
4. Position of the Stopper must be aligned with stem marked position.
5. Magnetostrictive level transmitter is a sensor with high accuracy, so installation must be done special care. Bending of the probe can result in decreased accuracy or abnormal output.
6. It is not advised to change the float of the sensor. Other floats may lead to abnormal functioning of the sensor.
7. Avoid floats to hit any object or dropped. Mishandling of float may damage the magnet inside which may result in abnormal functioning of sensor.
8. Sensor must not be mishandled, squeezed, bended or deformed. In case of any deformation and abnormal functioning, sensor needs to be sent back to factory for repair & calibration.
9. During transportation, sensor must be covered with anti vibration packaging such as bubble packaging or spongy packaging etc.
10. Housing of the sensor must not be opened to avoid any damage or abnormal.

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

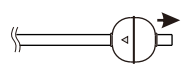
#### Step 1 :

Loosen the ring clip at stem end



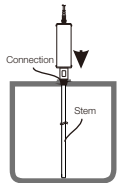
#### Step 2 :

Take off the float.



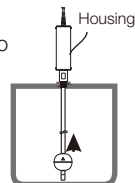
#### Step 3 :

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



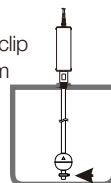
#### Step 4 :

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

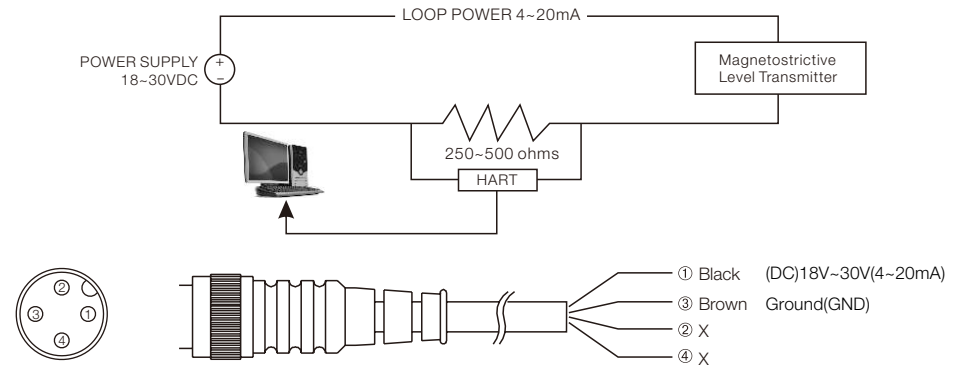


#### Step 5 :

Screw the ring clip well on the stem



### WIRING DESCRIPTION



### SPECIFICATION

Power Supply	18~30 VDC (HART Loop Power using Resistance)
Measuring Range	25~2500 mm
Output	4~20 or 20~4 mA
Current Output Resistance	500 Wmax
Linearity%FS (Accuracy um)	25mm~500mm±300 um@501mm~2500mm±0.02 %FS
Repeatability%FS	±0.002 %FS
Hysteresis%FS	±0.004 %FS
Temperature Effect	100 ppm/°C
Ambient Temperature	-40~85
Operation Temperature	-40~125
Temperature Sensor	PT100(Optional)
Temperature Accuracy	1
Communication Interface	HART(Optional)
Connection Type	Screw Connection
IP Protection Rating	IP 67/IP 69
Exproof Certification	NEPS/ATEX
Communication	HART Certification

## 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

Warranty 12 months after delivery. No fee such as testing, parts and maintenance will be charged in warranty. Any flaws caused by delivery can be filed to us within 7 days given related evidence.

We will be responsible for repair or replacement.

Please send back the whole unit to us and pack well to prevent break-down during delivery.

The following will be charged:

1. Out of warranty
2. Do not follow operation instruction in manual, or over product spec as indicated in catalogue.
3. Any cause by force majeure such as flood, earthquake, typhoon etc.



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