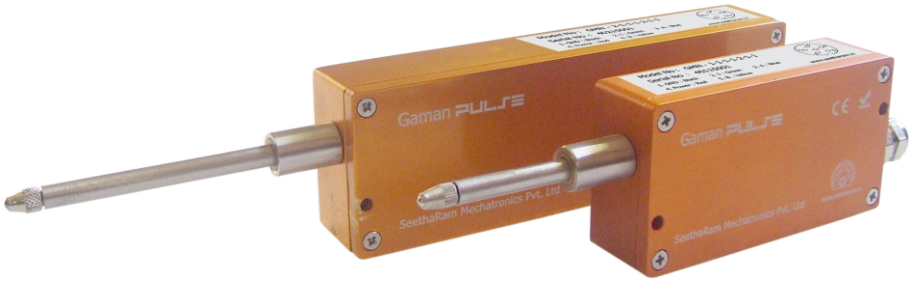
Bridging Gaps

Bridging Gaps in Technology

# Gaman Pulse Probe

## Linear Displacemnt Probe - Pulse

# USER'S MANUAL




Read the user's manual carefully before starting to use the unit or software.
Producer reserves the right to implement changes without prior notice.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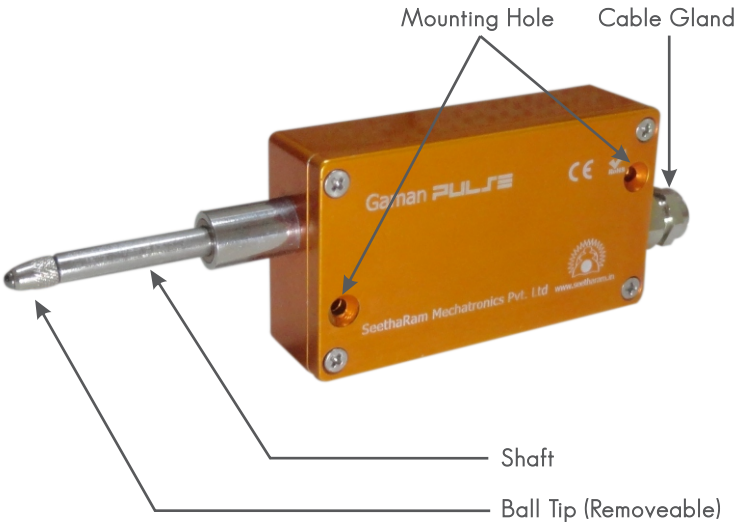
# 1. Safety / Proper Usage

- Ensure that the probe is not subjected to over-travel, or side loading at the tip
- When mounting the Linear Probe avoid force on of the bearing assembly by over-tightening of mounting screws.
- No oiling of the shaft is necessary.
- Contacts with solvents should be avoided.
- Do not use the unit in areas where there is risk of explosions.
- Do not use the unit in areas with significant temperature variations, exposure to condensation or ice.
- Do not use the unit in areas exposed to direct sunlight.
- In order to minimize fire or electric shock hazard, the unit must be protected against atmospheric precipitation and excessive humidity.
- Do not use the unit in areas threatened with excessive shocks, vibrations, dust, humidity, corrosive gasses and oils.

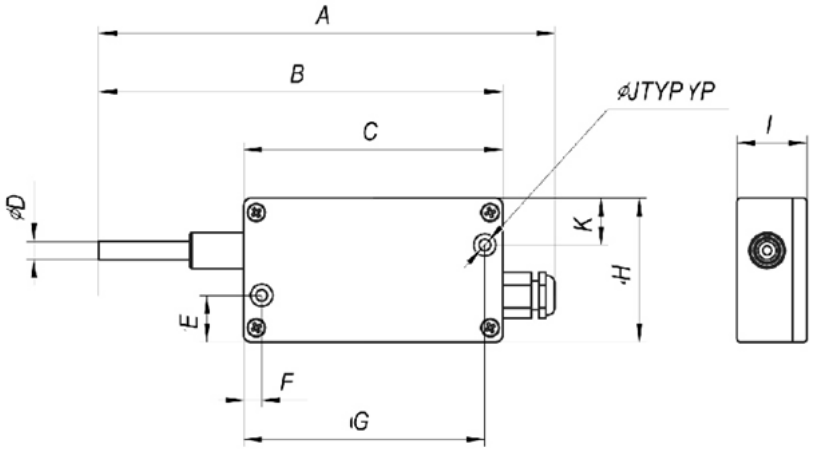
## Warning

Any attempt to dismantle the Linear Probe will invalidate the warranty. Any modification shall exclude all liability on our part for any damage resulting there from.

## 2. Product Description

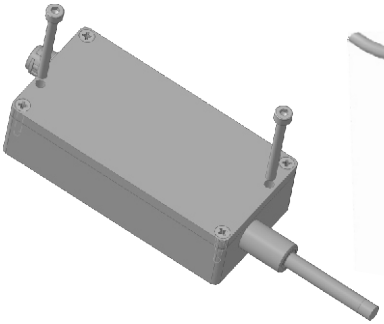


# 3. Dimensional Details

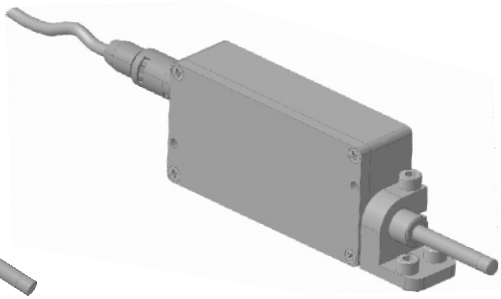



| STROKE | A | B | C | ØD | E | F | G | H | I | ØJ | K |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 25 | 126.70 | 112.30 | 72.00 | 5.00 | 13.00 | 5.00 | 67.00 | 40.00 | 19.50 | 3.15 | 13.00 |
| 50 | 199.00 | 184.60 | 119.00 | 5.00 | 13.00 | 5.00 | 114.00 | 40.00 | 19.50 | 3.15 | 13.00 |

# 4. Mounting

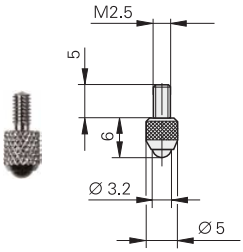


Screw Mounting

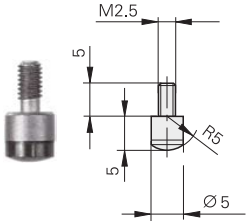


Mounting Clamp

# 5. Accessories




01

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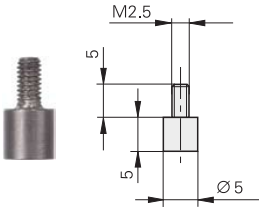


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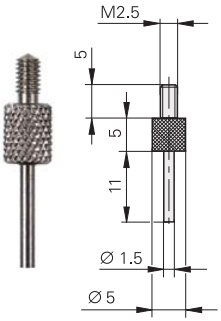


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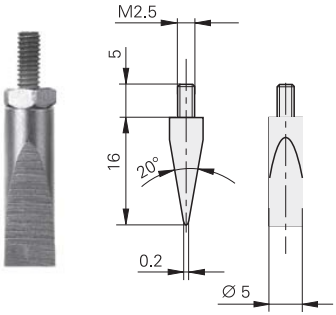


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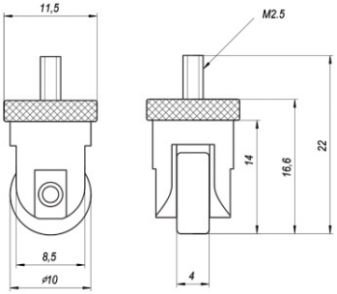


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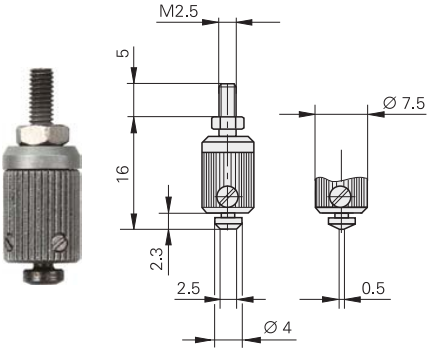
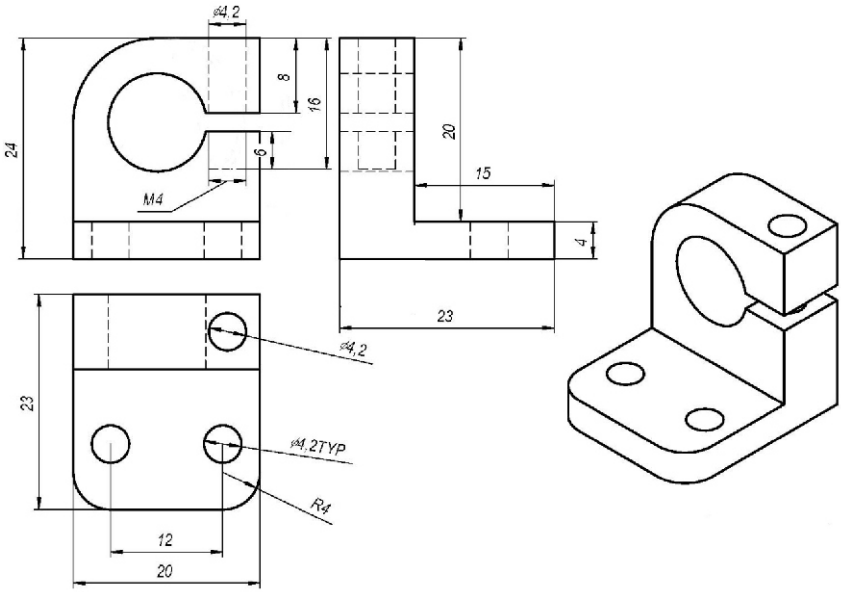



07

## 5. Accessories

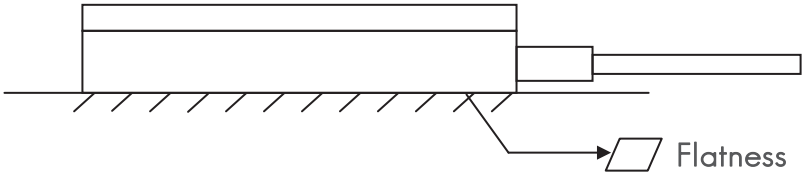


# 6. Pin Configuration

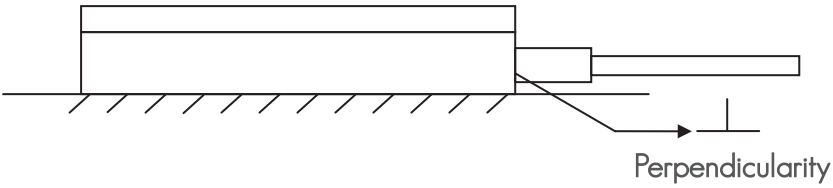
| Free End Cable Wire | TTL Output | MODBUS Output |
|---|---|---|
| Brown | Power Supply +ve 5VDC | Power Supply +ve 24VDC |
| White | Power Supply -ve 0VDC | Power Supply -ve 0VDC |
| Green | A Signal | RS485 +ve |
| Yellow | B Signal | RS485 -ve |
| Grey | Index | GND |

# 7. Procedure

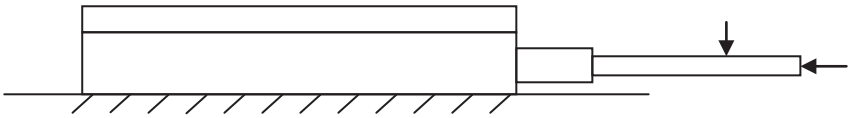
1. Mount the probe on flat surface




2. It is important to ensure that the probe is perpendicular to measuring table to avoid introducing cosine errors.

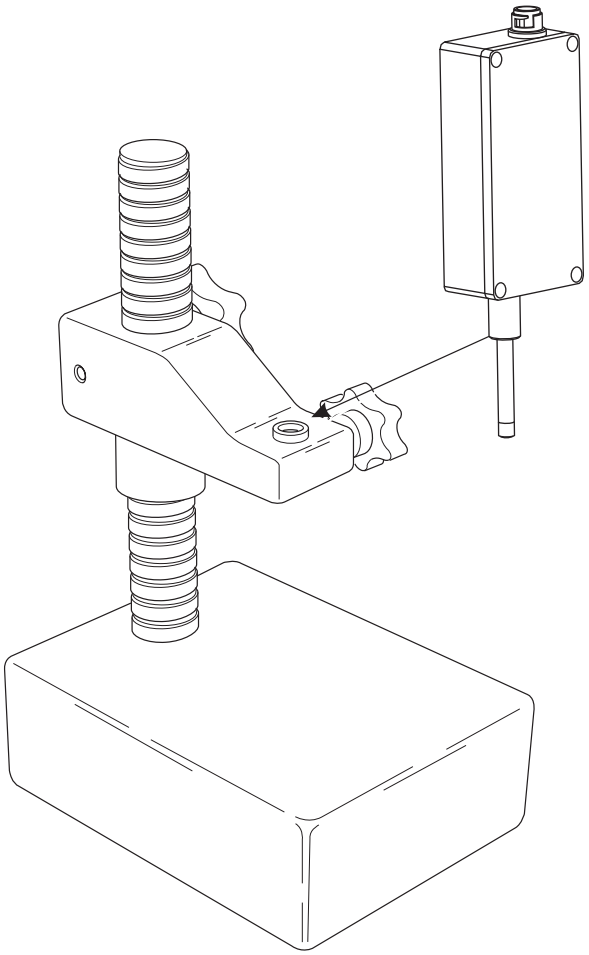



3. Ensure that the probe is not subject to over-travel, or side loading at the tip.



# 7. Procedure

4. When mounting the Linear Probe avoid force on of the bearing assembly by over-tightening of mounting screws.



# 7. Procedure

**Note:**

Do not use excessive torque when tightening gauge stand knobs.

5. Keep cable away from moving parts to avoid damage.

6. Protect against shock loading or impact.

7. Replacing the probe tip

a). Unscrew tip

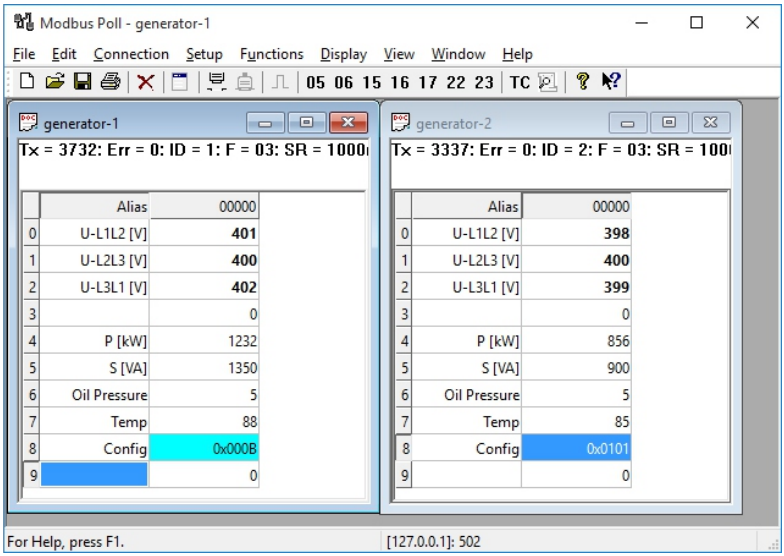
b). Install new tip.

c). Hand tighten tip.

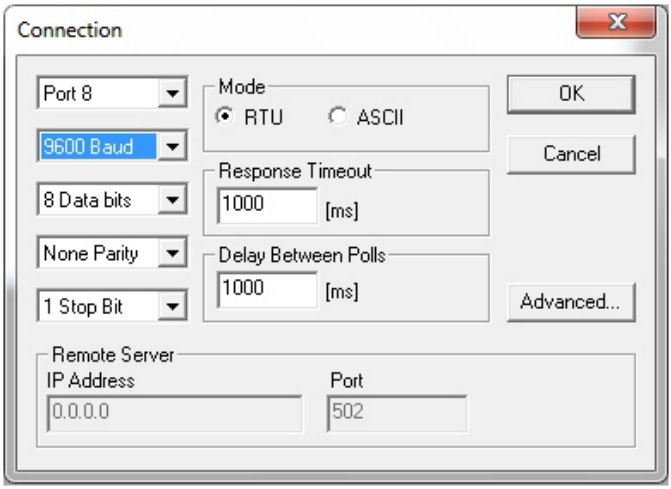
# 8. Software Setting

- Connect RS 485 converter to PC.
- Right click my computer – manage – device manager – ports – displays connected port

Setting details illustrated below for Modpoll software.



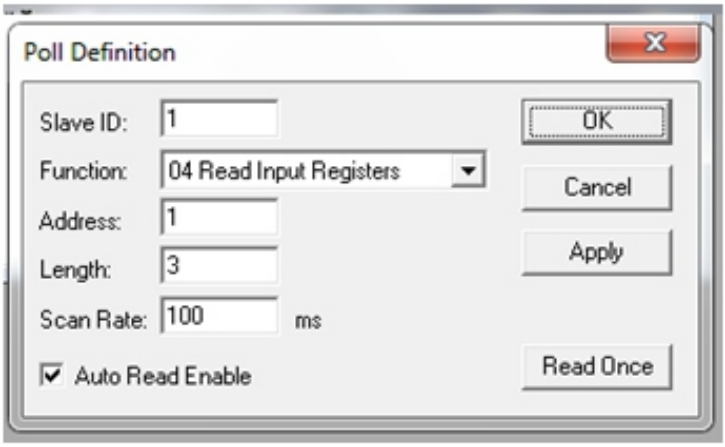
# 8. Software Setting




- Go to connection select port, select the baud rate.
- Data bits selection
- 8 data bits
- None parity
- 1 stop bit
- Select Mode RTU
- Press OK

# 8. Software Setting

- Go to poll definition
- Enter the Slave ID
- Select function – read input registers
- Press ok




- Connection will be established between modbus and PC.