

## FEATURES

- EASY INSTALLATION
- MOST FAVORITE DESIGN
- THE MORE ACCURATE MEASUREMENT POSSIBLE WITH SOUND VELOCITY SETTING
- VARIOUS APPLICATIONS POSSIBLE BY SELECTING TRANSMITTING POWER
- DISPLAY IN DISTANCE, LEVEL, OR SPACE CAN BE CHOSEN AT USER'S NEED

The 590A/B Series is a highly developed ultrasonic level measurement system, which provides in non-contacting level measurement for a wide variety of applications in liquid and solids.

Easy calibration and maintenance free "fit and forget" performance mean that you can install the 590A/B Series rapidly and with confidence. Two switched outputs NPN open collector, with fully programmable set points are provided in the 3 wire version, together with fault condition being indicated by the mA output on both the 2 and 3 wire versions.

The 590A/B Series operates on the principle of timing the echo received from a measured pulse of sound transmitted in air and utilize "state of the art" echo extraction technology.

## SPECIFICATIONS

### ■ PHYSICAL

|               |                                                                           |
|---------------|---------------------------------------------------------------------------|
| Dimension     | Overall 105(D)×250(H) mm<br>Transducer 55(D)×76.5(H) mm<br>Mounting 2"NPT |
| Weight        | Nominal 1.5 kg                                                            |
| Case Material | Polypropylene                                                             |
| Cable Entry   | PG11 at rear (Fitted with gland)                                          |

### ■ ENVIRONMENTAL

|                |             |
|----------------|-------------|
| Housing Rating | IP65        |
| Temperature    | -20°C~70°C  |
| Pressure       | Up to 2 Bar |
|                | CE          |

### ■ CERTIFICATION

### ■ PERFORMANCE

|                    |                                |
|--------------------|--------------------------------|
| Accuracy           | 0.25% of measured range or 3mm |
| Resolution         | 0.3% of full scale or 1 mm     |
| Measuring Range    | 0.30m~6m                       |
| Beam Angle         | 8° at -3dB                     |
| Damping Rate       | Adjustable 0.1m/min to 10m/min |
| Temp. Compensation | Fully compensated              |

### ■ OUTPUT

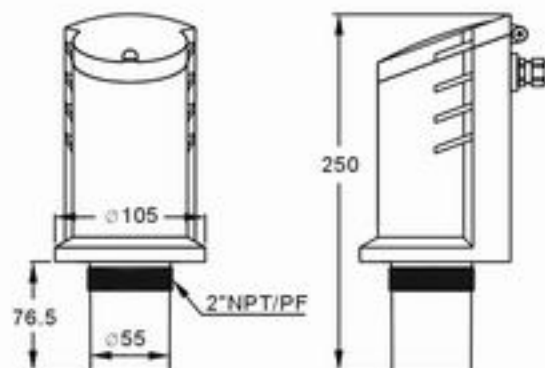
|               |                      |
|---------------|----------------------|
| Analog Output | 4~20mA into max.600Ω |
| Display       | 3 Digit LCD display  |

### ■ SUPPLY

|                     |                 |
|---------------------|-----------------|
| Power Supply        | DC20~30V        |
| Current Consumption | Less than 0.08A |



## DIMENSIONS (mm)



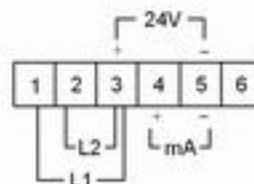
## WIRING CONNECTION

### ■ 590A ( 2 WIRE )



- 1) Direct Current (DC) input terminal (20-30VDC)
- 2) Current Output terminal (4-20mA)

### ■ 590B ( 3 WIRE )



- 1) Limit 1 Switched Output terminal (NPN Open Collector)
- 2) Limit 2 Switched Output terminal (NPN Open Collector)
- 3) Current Output terminal (4-20mA)
- 4) Direct Current (DC) input terminal (20-30VDC)
- 5) DC COMMON input terminal, and also used as RETURN terminal for all OUTPUTS
- 6) Only use during maintenance