

## Pearl V2 Series of DRO's



### Features :

- ◆ No of axis : 1 Axis, 2 Axis, 3 Axis
- ◆ Interactive message display
- ◆ Metric/Inch conversion
- ◆ Radius/diameter conversion
- ◆ Preset
- ◆ Zero datum
- ◆ Dimension define
- ◆ Absolute counting
- ◆ Machine reference
- ◆ Homming facility
- ◆ Bolt hole calculation (PCD drilling) upto 99 points
- ◆ Non volatile memory backup
- ◆ Power saving mode
- ◆ Tool length offset compensation of 10 tools
- ◆ Programming memory block of 99 steps
- ◆ Calculator
- ◆ Encoder direction select
- ◆ Selectable display resolution :  
0.001mm 0.005mm 0.010mm 0.1mm user defined
- ◆ 0-9 Keyboard
- ◆ Halving function
- ◆ Center of circle
- ◆ Near zero warning beep
- ◆ RS232C serial interface
- ◆ Linear encoders supported LE 2534, LE 1820, LE 3043, ME 2910, ME 2920, ME 6012 Scales & Read heads

### Advantages :

- ◆ Increased production
- ◆ Good positional accuracy
- ◆ Increased production safety
- ◆ Easy assemble and functioning
- ◆ Less operator fatigue
- ◆ Die cast aluminium robust body
- ◆ Economical

### Applications

- DRO's can be fitted on any conventional machines either new or old such as
- ◆ Center lathe
  - ◆ Milling machine
  - ◆ Horizontal boring machine
  - ◆ Vertical turret lathes
  - ◆ Cylindrical grinder
  - ◆ Surface grinder
  - ◆ Tool presetters
  - ◆ Special purpose machines
  - ◆ Length measuring fixtures

### Ease of operation

Increased productivity with innovative Pearl V2 series of digital readouts by retrofitting your manually operated machine tools or measuring equipment. This increases, helps to increase productivity, higher precision and more operating ease. You can retrofit Pearl series of DRO systems with any new or old type machine.

### Save time and reduce cost

- ◆ Digital readouts from innovative will save operators time and increases productivity

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## Small batch production :

To enable you to machine directly from the dimensions in the drawing, digital readouts offer the following support :

- ♦ Switching between absolute/incremental dimensioning
- ♦ Radius/diameter switching (for lathes)
- ♦ Functions for fast reference point acquisition

Program store/ recall for fast production of repetitive machining off small batch quantities.

## IAP Series of Linear Encoders

The highly accurate and reliable Linear Encoders from Innovative directly measure the movements of the axis slides and convert them into electrical measuring signals. These signals are calculated by the IAP Series of DRO's, which displays position of slides. Back lash, play in machine slides does not affect the accuracy of the displayed position values.

Supports signals for Linear Encoders other than standard IAP series of scales with 5V TTL quadrature waveform

## Models :

### IAP1X Pearl V2 ( One Axis)



### IAP2X Pearl V2 ( Two Axis)

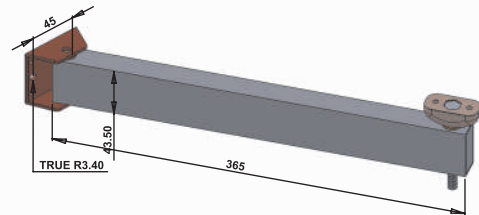


### IAP3X Pearl V2 ( Three Axis)

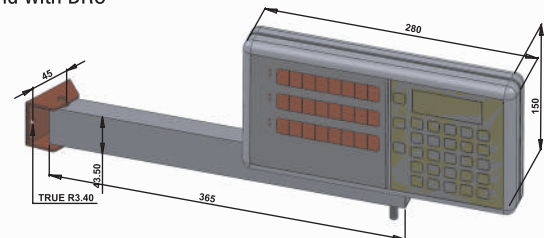


## Mounting Drawings :

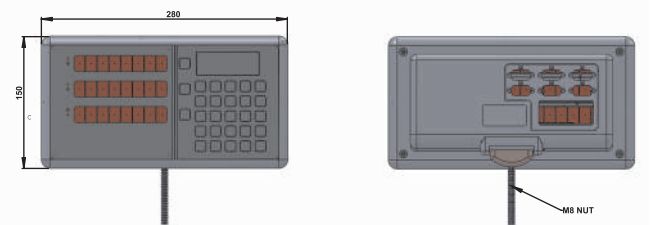
### Mounting stand



### Stand with DRO



### DRO



Note : Due to continues R&D activities at our end, Specifications are subject to change without prior notice.