



Datasheet

RS Double Column Height Gauge

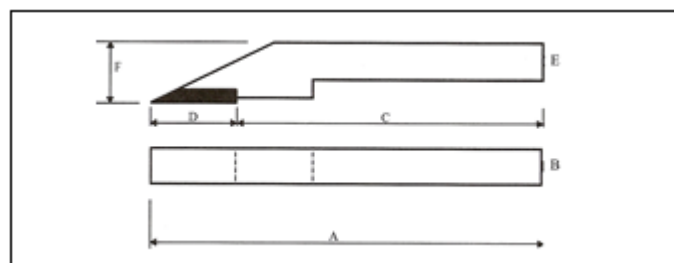
|  | <p>Robust twin column construction Large hand wheel for fast and fine adjustment Digit display: 8mm characters Tungsten carbide tipped scriber Power: 1 x SR44 silver oxide battery 1.5V</p> | | | | | | | | | | | |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|------|------|---------|-----|----|----|---------|-----|-----|
| | <p>Base Size</p> <table border="1"> <thead> <tr> <th>Base Size</th> <th>L mm</th> <th>W mm</th> <th>H mm</th> </tr> </thead> <tbody> <tr> <td>8412546</td> <td>135</td> <td>88</td> <td>45</td> </tr> <tr> <td>8412549</td> <td>180</td> <td>120</td> <td>53</td> </tr> </tbody> </table> | Base Size | L mm | W mm | H mm | 8412546 | 135 | 88 | 45 | 8412549 | 180 | 120 |
| Base Size | L mm | W mm | H mm | | | | | | | | | |
| 8412546 | 135 | 88 | 45 | | | | | | | | | |
| 8412549 | 180 | 120 | 53 | | | | | | | | | |

Packed Weight and Dimensions

| Code | Description | Weight g | W mm | H mm | L mm |
|---------|---------------------------------------------------|----------|------|------|------|
| 8412546 | Electronic Double Column Height Gauge 300mm / 12" | 3950 | 210 | 130 | 520 |
| 8412549 | Electronic Double Column Height Gauge 600mm / 24" | 9550 | 290 | 172 | 885 |

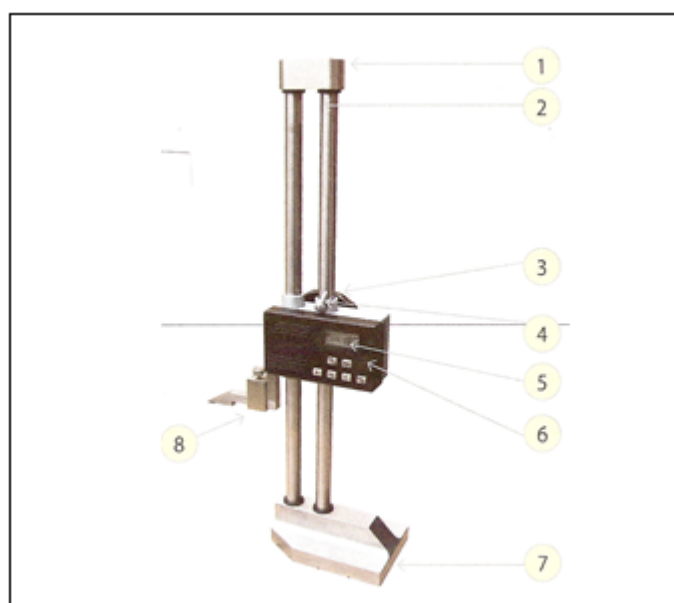
| | | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|-----|---------------------------|---|------|-----|-------------------|---|--------------|----|--------------|
|  | <p>Function Buttons:</p> <table border="1"> <tbody> <tr> <td>MM/IN</td> <td>Metric / Inch Conversion</td> </tr> <tr> <td>ABS</td> <td>Absolute / Relative Modes</td> </tr> <tr> <td>H</td> <td>Hold</td> </tr> <tr> <td>TOL</td> <td>Tolerance Setting</td> </tr> <tr> <td>O</td> <td>Zero Setting</td> </tr> <tr> <td>ON</td> <td>Power Button</td> </tr> </tbody> </table> | MM/IN | Metric / Inch Conversion | ABS | Absolute / Relative Modes | H | Hold | TOL | Tolerance Setting | O | Zero Setting | ON | Power Button |
| | MM/IN | Metric / Inch Conversion | | | | | | | | | | | |
| ABS | Absolute / Relative Modes | | | | | | | | | | | | |
| H | Hold | | | | | | | | | | | | |
| TOL | Tolerance Setting | | | | | | | | | | | | |
| O | Zero Setting | | | | | | | | | | | | |
| ON | Power Button | | | | | | | | | | | | |

| Code | Range | Resolution | Accuracy 0-200mm | Accuracy 200-400mm | Accuracy 400-600mm | Repeatability mm |
|---------|--------------|------------------|---------------------|-----------------------|-----------------------|---------------------|
| 8412546 | 300mm 12" | 0.01mm 0.001" | 0.03mm 0.0012" | 0.04mm 0.0015" | | 0.01mm 0.001" |
| 8412549 | 600mm 24" | 0.01mm 0.001" | 0.03mm 0.0012" | 0.04mm 0.0015" | 0.05mm 0.002" | 0.01mm 0.001" |



Scriber suits both models

| A mm | B mm | C mm | D mm | E mm | F mm |
|---------|---------|---------|---------|---------|---------|
| 80 | 8.80 | 70 | 10 | 9.25 | 16 |



| | |
|---|------------------|
| 1 | Top Block |
| 2 | Double Columns |
| 3 | Adjustment Wheel |
| 4 | Locking Lever |
| 5 | LCD Display |
| 6 | Measuring Head |
| 7 | Base |
| 8 | Scriber |

Operating Care:

- Clean instrument with a soft cloth only
- Keep away from strong magnetic fields
- Prevent ingress of oil and other liquids into electronic parts
- Remove battery if instrument is not to be used for a long period of time
- Do not disassemble or drop the instrument
- Do not carry the instrument by the top block
- Do not mark the instrument by engraving, etching or any other permanent method, as this will invalidate the warranty

Absolute Measuring Mode:

- Press ON/OFF key to power up display
- Press mm/in key to select metric or inch measuring system
- Press ABS key to remove INC if shown on display
- Instrument is now in Absolute Measuring Mode
- Traverse scribe down close to datum surface using hand wheel knob
- Use outer rim of hand wheel to carefully bring scribe into contact with the datum surface
- Press C key to zero display
- The Height Gauge is now ready to give direct readings from the datum surface
- The Instrument can be locked in the desired position to ensure the head does not move when scribing



Relative Measuring Mode

Press **ABS** key to remove **INC** if shown on the display.

Move Height Gauge Head to the required setting position and press **ABS** key to show **INC** on the display

The display will automatically show zero

Movement of the gauge head from this position will display a positive or negative reading from the Relative zero set position

Press the **ABS** key to return to the Absolute zero set position

Tolerance Setting Mode:

Set Height gauge to zero in Absolute mode as previously described

Press **TOL** key to indicate **▲** symbol on the display screen, move the gauge head to indicate the upper tolerance size

Press **TOL** key to set the size and indicate **▼** symbol on the display screen.

Move the gauge head to indicate the lower tolerance size and press **TOL** key to set

The tolerance has now been set and the **▲** or **▼** symbol will be displayed to indicate whether the measurement is either above or below the desired size range

The screen will display **OK** when the measurement is within the tolerance band

Data Hold:

Press **H** key to hold displayed size. The gauge head can now be moved whilst the display remains frozen

Press **H** key again and the Height Gauge will resume normal working and display the correct new position

General Specifications:

| | |
|------------------------|-------------------------|
| Operating Temperature: | 0 - 40°C |
| Storage Temperature: | Minus 20°C to Plus 70°C |
| Humidity: | Within 80% |
| Power Supply: | 1 x SR44 Battery |
| Battery Life: | 12 Months |

Fault Finding:

| Fault | Correction |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Display value frozen | Check if in Data Hold Mode |
| Display Confusion | Remove battery for 4 minutes, then replace to re-set the electronic |
| Incorrect Measurement | Clean measuring surfaces, re-set datum zero (see Operating Instructions) Measuring speed exceeded, use hand wheel only to move measuring head |
| No display | Check battery voltage and instrument contacts |
| Display Flashes | Replace battery |