

## Datasheet

# RS Digital Measuring Set

RS Stock number **841-3362**



This set contains 3 of the most popular measuring and setting tools, conveniently supplied in a custom fitted storage case

Instruments in set:

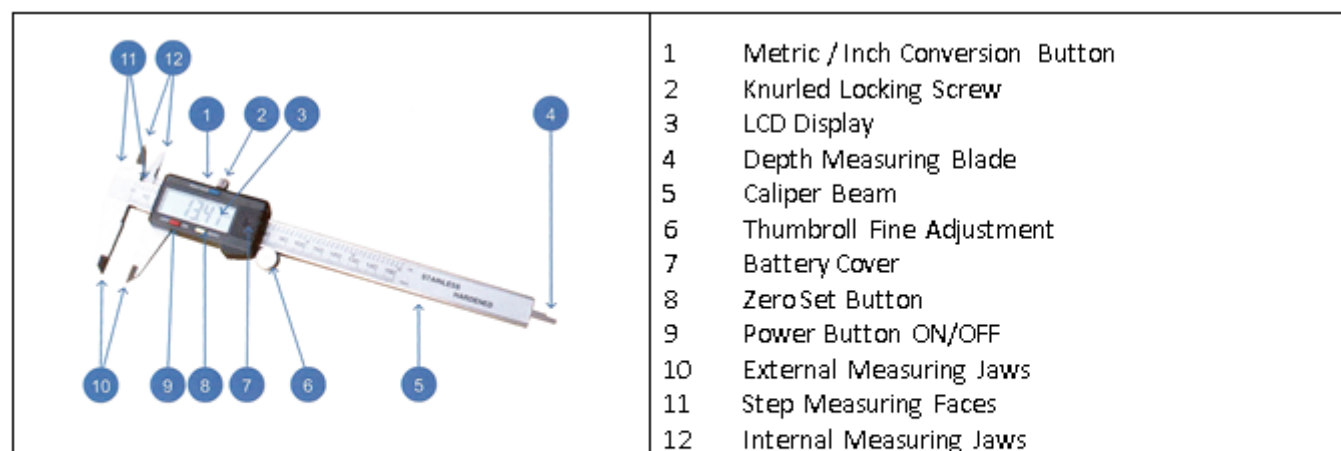
- 1 x Electronic Digital Caliper: 150mm/6"
- 1 x Electronic Digital Indicator: 25mm/1"
- 1 x Magnetic Base with Fine Adjustment

Code	Description
8413362	3 Piece Electronic Digital Measuring Set

### Electronic Caliper



Hardened stainless steel frame and measuring jaws  
 Thumbroll adjustment  
 Knurled locking screw  
 Depth rod  
 Clear LCD Display  
 Large 11mm digits  
 Inch/Metric conversion  
 Origin setting  
 Resolution: 0.01mm / 0.0005"  
 Repeatability: 0.01mm / 0.0005"  
 4 Way measurement:  
 Individual serial numbers  
 Power: 1 x Silver oxide battery SR44 - 1.55v  
 Operating temperature: 5 - 40°C  
 Relative humidity: Maximum 80%  
 Warranty: 1 year



Code	Range	Resolution	Repeatability	Accuracy	Ext. Jaw Length	Int. Jaw Length
8412518	150mm / 6"	0.01mm / 0.0005"	0.01mm / 0.0005"	±0.03mm	40mm	18mm

## OPERATING INSTRUCTIONS

When using the Caliper for the first time or after a period of non-use, wipe the beam scale with a dry clean cloth to remove any condensation or oil deposits.

Prior to setting the caliper for measuring, first clean the measuring faces with a soft clean cloth or paper.

Switch Caliper ON

Move Caliper jaws together.

Select required measuring mode Inch / Metric.

Zero display, caliper is now ready for direct measurement.

Caliper can be zeroed at any position within its range, to provide relative measurements.

Caliper provides 4 way measurements, External, Internal, Step and Depth.

## OPERATING CARE

Clean measuring faces with dry soft cloth

Keep away from strong magnetic fields

Prevent ingress of oil / liquids into electronics

Remove battery if instrument is not used for a long period of time

Do not disassemble or drop the instrument

**Do not mark instrument by engraving, etching or any other permanent marking method, as this will invalidate the warranty**

## FAULT FINDING

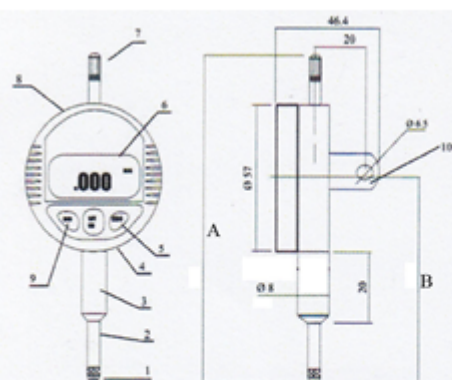
Fault	Cause	Action
Display flashes	Battery voltage below 1.45volts	Replace battery
Display frozen	Circuit overload	Remove battery and replace after 4 minutes
Accuracy below specification but within +/- 0.1mm	Dirt in sensor	Remove slider cover assembly, clean face of sensor with dry clean compressed air (5kg/cm <sup>2</sup> )
No display	Poor battery contact	Remove battery and carefully adjust battery contacts, replace battery.
	Dead battery	Replace battery.

## Electronic Indicator



Code	8412565
Dial Face Dia.	57mm / 2-1/4"
Digit Size	14mm
Clamping	8mm Stem / Lug Back
Contact Point	Ball Type / M2.5mm Thread
Range	25mm / 1"
Resolution	0.01mm / 0.001"
Repeatability	0.01mm / 0.001"
Accuracy	±0.05mm
Speed	≤0.5M/S
Power	1 x SR44: 1.5v Cell
Operating Temp.	0 - 40°C
Storage Temp	Minus 20-70°C
Rel. Humidity	≤80%

Code	Description
8412565	Electronic Digital Indicator: Range 25mm / 1": Resolution 0.01mm / 0.001"



- |                  |                            |
|------------------|----------------------------|
| 1: Contact Point | 6: LCD Display             |
| 2: Spindle       | 7: Spindle Top             |
| 3: Stem          | 8: Battery Compartment     |
| 4: On/Off Switch | 9: Metric / Inch Selection |
| 5: Zero Setting  | 10: Central Back Lug       |

### Use

Clean spindle and contact point with a soft cloth before use  
 Press On/Off switch to power up indicator  
 Select Metric or Inch measurement  
 Press Zero Button when contact point is touching the datum surface  
 Instrument is now ready for use

Model	A	B
8412565	125mm	85mm

To replace battery, remove battery compartment cover and remove old battery  
 Fit new battery into holder with positive side facing upwards. Replace holder and battery into indicator


### Care

Indicator face and spindle should be kept clean and dry  
 Do not connect any part of the indicator to a voltage supply  
 Avoid shocks and impact to spindle and dial face  
 Remove battery if not being used for a long period

### Fault Finding

Fault	Possible fault	Action
Digits appear and change rapidly	Low battery power	Replace battery
Display not working when battery is changed	Circuit locked when changing battery due to faulty contact	Remove battery and replace after 30 seconds
Reading error over full travel greater than 0.1mm	Ingress of dirt has damaged or covered sensor	Remove cover and slider assembly, clean with an industrial non-chlorinated solvent
Nothing appears on display	Battery contact is poor or voltage is below 1.1v	Replace battery ensuring contacts are in good condition

### Magnetic Base with Fine Adjustment

	<p>Magnetic Base with Fine Adjustment cross arm            Holds Plunger and Lever Indicators            Plunger Indicators held on Lug Back or 8mm Stem            Lever Indicators held on spigots            Overall Height: 230mm            Main Upright Post: 12mm dia. with M8 x 1.25 thread            Fine Adjustment Cross Arm: 10mm dia. x 150mm long</p> <p>Magnetic Base with ON/OFF switch            Magnetic Pull: 80kg (800N)            Magnet Size: H=55mm W=50mm D=60mm</p>
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Code	Description
4144722	Magnetic Base: Fine Adjust Cross Arm