

Water & Soil Analysis Kit

161, 191, 171 & 172

Features

- Measures pH, Conductivity, TDS, DO, Salinity, mV & Temperature
- Turbidity Measurement in Model 191
- Colorimetric measurement in 171
- Turbidity & Colorimetric measurement in 172
- Mains cum Battery Operated
- Available in ABS Plastic Briefcase



161



191

1 Year
Warranty

Digital water & Soil Analysis kits are available in following 4 models.

Model 161 cover pH, Cond., TDS, DO, Temp., Salinity & mV

Model 191 cover pH, Cond., TDS, DO, Temp., Salinity & Turbidity.

Model 171 cover pH, Cond., TDS, DO, Temp., Salinity & Colorimeter.

Model 172 cover pH, Cond., TDS, DO, Temp., Salinity, Turbidity & Colorimeter.



Water & Soil Analysis Kit

Technical Data

MODEL	161	171	191	172
Product Display	Digital Water & Soil Analysis Kit 3½ Digit LCD	Digital Water & Soil Analysis Kit 3½ Digit LCD	Deluxe Water & Soil Analysis Kit 3½ Digit LCD	Digital water & Soil Analysis Kit 3½ Digit LCD
pH				
Range	0 to 14 pH	0 to 14 pH	0 to 14 pH	0 to 14 pH
Resolution	0.01 pH	0.01 pH	0.01 pH	0.01 pH
Accuracy	0.01 ± 1 Digit	0.01 ± 1 Digit	0.01 ± 1 Digit	0.01 ± 1 Digit
Temp. Comp.	0 to 100°C (/Manual)	0 to 100°C (/Manual)	0 to 100°C (/Manual)	0 to 100°C (/Manual)
Conductivity (E C)				
Range	0-200µS	0-20mS	0-20mS	0-20mS
	0-2, 0-20, 0-200mS			
Resolution	0.1µS	0.01mS (10µS)	0.01mS (0.1µS)	0.01mS (10µS)
Range Selection	Manual	---	---	---
Accuracy	± 0.5% FS ± 1 Digit	± 0.5% FS ± 1 Digit	± 0.5% FS ± 1 Digit	± 0.5% FS ± 1 Digit
Cell Constant	Adjustable (0.4 to 1.5)	Pre-Adjustable	Pre-Adjustable	Pre-Adjustable
Temp. Coefficient	2%	2%	2%	2%
Temp. Comp.	Adjustable from table	Adjustable from table	Adjustable from table	Adjustable from table
Reference Temp.	25°C	25°C	25°C	25°C
Temperature				
Range	0-100°C	0-100°C	0-100°C	0-100°C
Resolution	0.1°C	0.1°C	0.1°C	0.1°C
Accuracy	± 0.1°C ± Digit	± 0.1°C ± Digit	± 0.1°C ± Digit	± 0.1°C ± Digit
Sensor	Semi Conductor Type	Semi Conductor Type	Semi Conductor Type	Semi Conductor Type
TDS				
Range	0-200 ppm	0-20 ppt	0-20 ppt	0-20 ppt
	0-2, 0-20, 0-200 ppt.			
Range Selection	Manual	---	---	---
Resolution	0.1 ppm	0.01 ppt	0.01 ppt	0.01 ppt
Accuracy	± 0.5% FS ± 1 Digit	± 0.5% FS ± 1 Digit	± 0.5% FS ± 1 Digit	± 0.5% FS ± 1 Digit
Cell Constant	0.4 to 1.5 on display	Pre-Adjustable	Pre-Adjustable	Pre-Adjustable
DO				
Range	0-20 ppm	0-20 ppm	0-20 ppm	0-20 ppm
Resolution	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppt
Accuracy	0.5 ppm ± 1 Digit	0.5 ppm ± 1 Digit	0.3 ppm ± 1 Digit	0.5 ppm ± 1 Digit
Temp. Comp.	Manual (5°C to 55°C)	Manual (5°C to 55°C)	Manual (5°C to 55°C)	Manual (5°C to 55°C)
DO Sensor	Gold/Silver Amperometric Probe	Gold/Silver Amperometric Probe	Gold/Silver Amperometric Probe	Gold/Silver Amperometric Probe
mV (ORP)				
Range	0 to + 1999 mV			
Resolution	1 mV	---	---	---
Accuracy	1 mV ± 1 digit			
Turbidity				
Range			0-1000NTU	0-1000NTU
Resolution	---	---	1 NTU	1 NTU
Accuracy			±3% FS ± 1 Dlgit	±3% FS ± 1 Dlgit
Sample System			30 mm Clear Glass Tube	30 mm Clear Glass Tube
Salinity				
Range	0-50 ppt	0-50 ppt	0-50 ppt	0-50 ppt
Resolution	0.1 ppt	0.1 ppt	0.1 ppt	0.1 ppt
Accuracy	± 0.5% FS ± 1 Digit	± 0.5% FS ± 1 Digit	± 0.5% FS ± 1 Digit	± 0.5% FS ± 1 Digit
Colorimeter				
	---	Abs. 0 - 1.99, Filters - 5 Resolution - 0.01	---	Abs. 0 - 1.99, Filters - 5 Resolution - 0.01
Power Supply	1.5Vx6Dry Cells or 230V±10%AC, 50 Hz	Inbuilt Chargeable Battery or 230V±10%AC, 50 Hz	Inbuilt Chargeable Battery or 230V±10%AC, 50 Hz	Inbuilt Chargeable Battery or 230V±10%AC, 50 Hz
Standard Accessories	pH Electrode, Cond./TDS/Salinity Cell, Temp. Probe (161 & 191), Do Probe, Dry Cell container (161 & 151), Main Lead, Operation Manual, Bottles for pH Solution & pH Tablets Bottles, Turbidity Test Tube Set (191, 172) Colorimeter test tubes (171, 172)			