

Accessory:

- Carrying case.....1 pc.
- Operation manual.....1 pc.
- Ultrasonic sensor.....1 pc.

3. FRONT PANEL DESCRIPTIONS



- 3-1 Sensor plug
- 3-2 Display
- 3-3 mm/inch key
- 3-4 Power key
- 3-5 Material selection key
- 3-6 Plus key
- 3-7 Ultrasonic sensor
- 3-8 Calibration key
- 3-9 Minus key
- 3-10 Battery Compartment/Cover
- 3-11 Coupling indicator
- 3-12 Standard block

- 4.3 Press the Plus key 3-6 or Minus key 3-9 to select the material code to measure and then press the Material Selection key to confirm. The display will show '0'. If you select a material code but do not confirm the selection, the code will automatically change to '0' after several seconds. In such case, the meter will still reserve the material code before exiting.
- 4.4 It is unnecessary to select the material code once the material code is confirmed (automatically stored to the memory of the meter) unless the material to measure is different from that before.
- 4.5 To browse the material code selected, if only press the Select key 3-5. To quit browsing, if only press the Select key 3-5 again or wait till the code automatically change to '0' after several seconds or the meter will automatically quit to measurement state if measuring.

5. CALIBRATION

- 5.1 Drop a little oil on the 5 mm standard block 3-12.
- 5.2 Press the Calibration key 3-8, the 'CAL' will be shown on the Display. 'CAL' is the short for calibration.
- 5.3 Press the sensor 3-7 on the standard block. The coupling symbol ((●)) is on if coupling well.

4. MATERIAL SELECTION

- 4.1 Press the power key 3-4 to turn on the unit.
- 4.2 Press the Material Selection key 3-5 and the display 3-2 will show the code 'cdxx'. 'cd' is the abbreviation for 'code' and 'xx' is one number among 01~11. The 'cdxx'-material relationship is as follow.

No.	CODE	Material
1	cd01	Steel
2	cd02	Cast iron
3	cd03	Aluminum
4	cd04	Red copper
5	cd05	Brass
6	cd06	Zinc
7	cd07	Quartz glass
8	cd08	Polyethylene
9	cd09	PVC
10	cd10	Gray cast iron
11	cd11	Nodular cast iron

- '5.0' mm (or '0.197' inch) and 'CAL' will be shown on the Display in turn. When steady, press CAL key 3-8 to confirm and then the unit return to the state of measurement.
- 5.4 The calibration result will be auto-saved to the unit once confirmation. It is unnecessary to calibrate often unless you suspect the accuracy of measurement
- 6. MEASURING PROCEDURE
- 6.1 Press the power key 3-4 to turn on the unit.
- 6.2 Press the mm/inch key 3-3 to select the right measurement unit.
- 6.3 Press the Sensor 3-7 onto the material surface to measure on the premise that the material code selected is right. Be sure that coupling is well and the symbol ((●)) 3-11 is on. The reading on display is the measurement value.
- 6.4 The reading is held till a new measurement value is coming. The last value is held on the display till the power is off.
- 6.5 There are 2 modes to turn off the power. i.e. Manual off at any time by pressing the power key or Auto power off after about 1 minutes from last key operation.

7. BATTERY REPLACEMENT

- 7.1 When the battery symbol appears on the display, it is time to replace the batteries.