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MODEL: GM280

Film/ Coating Thickness Gauge
Instruction Manual



📍 Tehran, Tehransar



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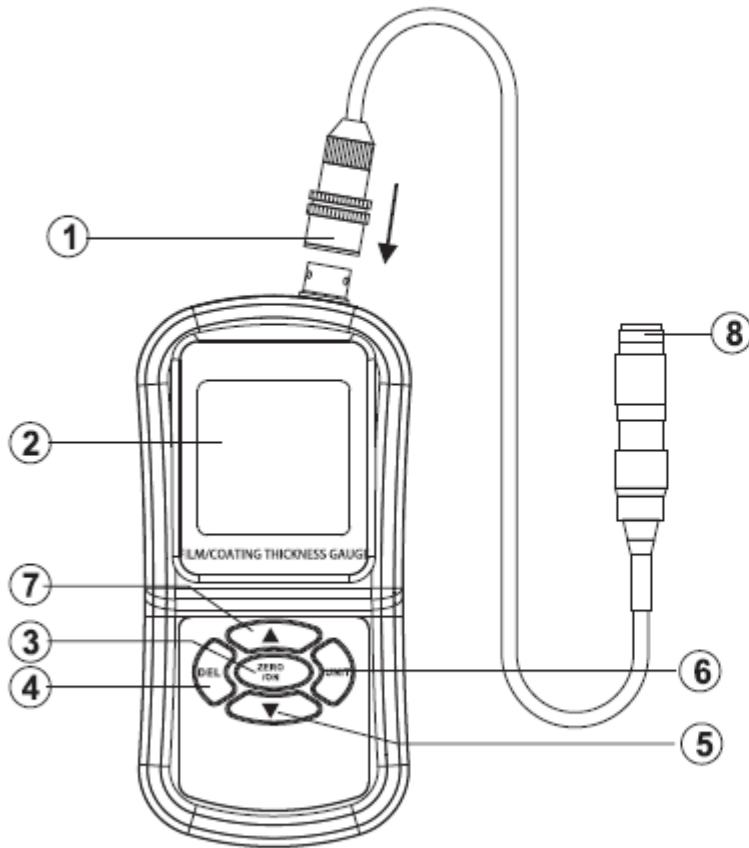
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CE  Version: 280-EN-0

Diagram of the unit



1. Connector (With direction indicator)
2. LCD display
3.  : Power on/ Set zero
4.  : Data delete key
5.  : Menu (single measure SNG, Continuously measure CTN, Average measure Average, Maximum measure MAX) pagedown and basic calibration key
6.  : Unit convert between Metric and Imperic
7.  : Menu (single measure SNG, Continuously measure CTN, Average measure AVG, Maximum measure MAX) pageup and basic calibration key.
8. Sensor



Note:

Above key function descriptions just are simply introductions, for details please read operation instructions part in this manual.

LCD display



1. Battery power symbol, shows the battery power
2. Measure value dynamic bar
3. **NFe** : Non-ferrous measuring
4. Measurement value display area
5. Measurement mode, Data analysis indication
6. **M** : Memory record status
7. **μmil** : Imperial/ Metric unit change
(1mil= 0.0254mm=25.4 μm)
8. Recorded data display
9. Measuring range symbol
10. : Backlight indication, the backlight will be off after no further operation for 15 seconds.

2.Operation instructions

Substrate ad standard piece

- Standard piece:
 - a. All the sample with a known thickness could be used as a standard calibration piece and in short referred to as standard piece.
 - b. The coated standard piece
An even firmly-coated standard piece with a known thickness could be used as a Standard Piece too, and in terms of the application of this product, the coating must be non-conductive.
- Substrate:
 - a. The standard substrate's roughness and electrical property, must be close to those of the material to be measure. To identify the suitability of the substrate, compare the outputs from the standard piece with the material to be measured.
 - b. If the thickness of the material is in the range of the regulated, two methods could be selected to calibrate.
 - 1). To calibrate a metal Standard Piece that with same thickness as the material to be measured.
 - 2). use a similar electricity standard metal gasket piece which have enough thickness for calibration, be sure that there is not spacing between substrates.
 - c. If the curvature of the material is too big to be calibrated on the flat surface, please ensure that the coated standard pieces curvature has the same thickness as the material to be measured.