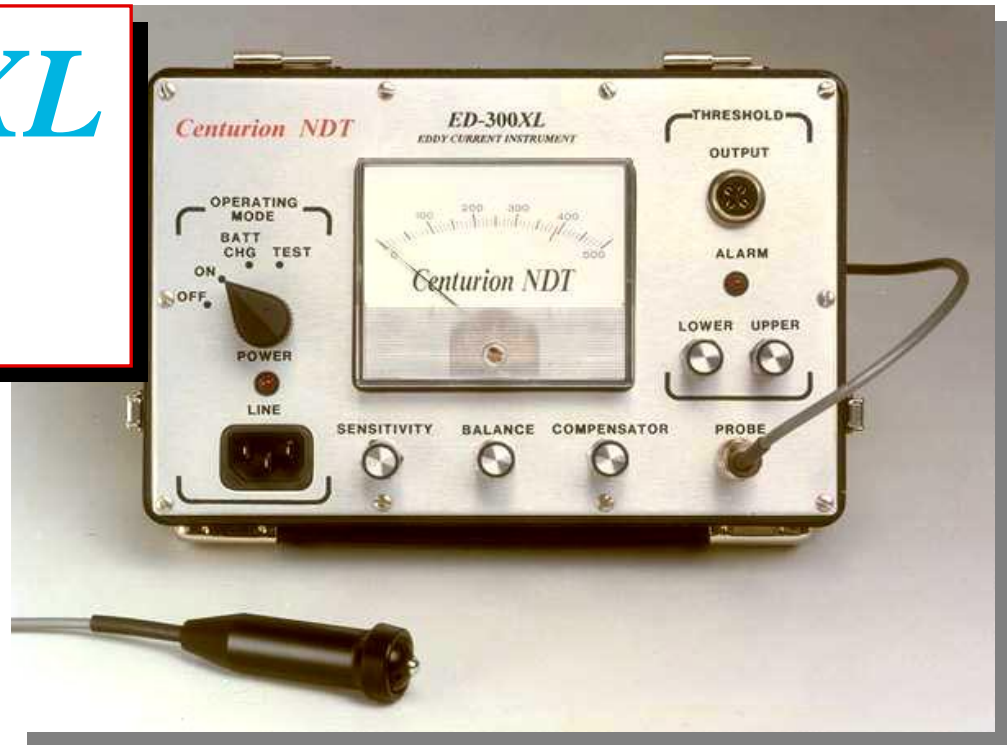


ED-300XL

Magnetic Sorting Instrument



Special Features

The new ED-300XL is a low frequency eddy current instrument for measuring and sorting ferrous materials for hardness, alloy content, heat treatment and metallurgical structure. The unit compensates for surface roughness (lift-off), permitting accurate readings through .010" to .015" coatings of rust, dirt or scale. The ED-300XL's maximum eddy current penetration is approximately 1/8". Penetration depends upon the type and hardness of the ferrous material. As the sensing probe, or coil, detects a metallurgical variation, the instrument's needle (on the front panel) registers accordingly. Three front panel controls provide adjustment of sensitivity, compensation and balance for unit calibration.

- Compensator adjustments for "lift-off" stability
- Replacement steel ball tip on probe
- Compact design-only 4.75" by 9" x 6"
- Electronic "window" style gate with relay outputs
- All rugged, durable, lightweight aluminum cabinet
- Weighs only 6 lbs.
- 50 ft. probe lead possible without affecting accuracy
- Dust proof and weather resistant
- Wide temperature and humidity capabilities allow continuous operation under most environmental conditions
- High quality components insure compact rugged construction with minimum maintenance

Applications

The *Centurion NDT* Model ED-300XL is particularly suitable for ferrous foundries, heat treat shops, steel warehouses and general manufacturing plants...wherever quick, accurate tests must be made to segregate for metallurgical analysis and structure. For example, the instrument can separate gray

cast from nodular cast iron. It can determine depth of case under certain conditions. The ED-300XL can distinguish between slight differences in alloy. And, it can measure hardness without damaging any parts. Note: all applications must be based upon readings of known samples.

Operation

The ED-300XL operates from a 110 volt, 60 cycle, A.C. line. The sensing probe is placed on a known sample and adjustments are made for sensitivity, balance and lift-off compensation. Once the instrument is properly set up, either manual or automatic testing may commence. The ED-300XL is constructed with rugged, durable, high quality materials to assure long, reliable service with minimum maintenance.

Description

The Model ED-300XL is housed in a heavy gauge aluminum enclosure measuring 4.75" x 9" x 6". The "window" style gate adjusts easily for simple "go" and "no go" operations. The general purpose probe measures 2-1/2" long x 3/4" diameter, with 1/4" replaceable steel ball. Encircling coils are available for appropriate applications. Weight of the complete unit is 6 pounds.

Specifications

Case Dimensions: Case dimensions (cover closed)
4.75" x 9" x 6" (12cm x 22.9cm x 15.2cm)

Weight: 6 lbs. (2.72 KG)

Frequency Range: Fixed 360 Hz

Power Requirements: 110/60 Hz

Readout: Rectangular meter, 3-1/2" (8.9cm) wide. Scale numbered from 0 to 500 in 50 divisions.

Environmental capability: Temperature range - 0° to 120°F at 85% RH.