

Handheld System for Oil Film Thickness Measurement

Oil sensor NG -

The follow-up model of the successful oil thickness sensor Standard Plus

The oil sensor NG serves as a mean for easy oiling control at steel producers and their customers as well.



The instrument is based on robust infrared filter technology and designed for use in industrial environments. It contains a graphic display for indication of the oil thickness, optional parameters and the calibration selected. Calibrations for the nine metal types cold rolled steel, galvanized, hot dip aluminized, hot dip galvanized, electro galvanized (pure and phosphated), zinc enriched epoxy (Bona zinc) and aluminium (mill finish and EDT) are provided. Other types of metal surfaces can be added on request and may also be developed by the customer. All films between 0.2 and 6 g/m² ($\approx \mu\text{m}$) can be measured.

The system is housed in a robust rubber coated tube, which contains the illuminating system, filter wheel, detector, referencing mechanics, rechargeable battery and the electronics. Several self-tests are included and supervise correct system performance.

Details

Power supply

Battery: 7.2 V rechargeable Ni/MH, battery life \approx 9 hrs.
Supplied with battery charging station

Connections

-RS232 socket for computer data exchange
-DIN socket for internal battery loading



Display

- Illuminated graphic display
- Individually selectable metal types
- Film thickness plus error and/or mean
- Status/Error messages
- Multi-language display menu for display settings
- Battery capacity indicator

Controls

- Power on/off button
- Trigger
- Select buttons for metal surfaces and menu navigation

Mechanical

Housing. Rubber coated aluminium cylinder
 Dimensions: 22.8 cm (33,5 incl. handle), x Ø 12.8 cm
 Weight: 3.4 kg incl. battery

Environment

The system is constructed to good industrial standards and is capable of withstanding normal handling during deployment in industrial environments (IP 54). The only maintenance to be performed by the user is time-to-time cleaning of the front window with the supplied cleaning kit.