

Multichannel On-line Coating Thickness Analyzer

Application

Coating Thickness Analyzer is a tool for precise and accurate XRF measurement of various metallic and non-metallic coatings thicknesses (anticorrosive, insulating, antioxidizing, waterproof, pipe coating, etc.). Substrate/coating components are elements from Mg to U. System is applicable for control and monitoring of industrial processes.

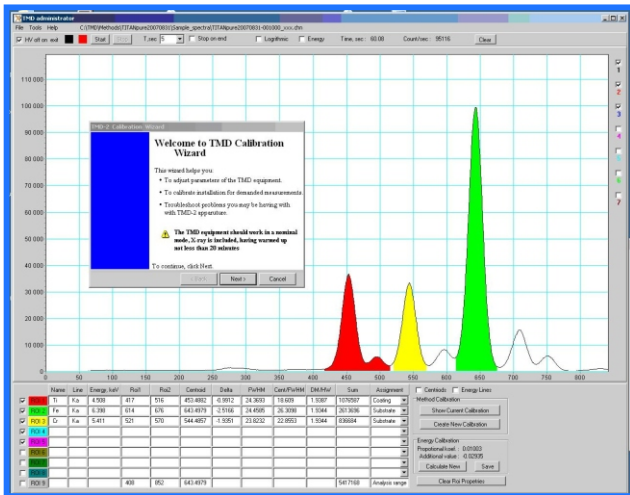
Features

- automatic choice of coating thickness evaluation method for optimization of relative error of measurements
- remote control of analyzer electronics and software by ETHERNET interface from Workstation Device and communications with OPC server
- very simple and convenient operation and service
- possibility to install the measurement block under and above measured material
- built-in industrial computer

Specifications

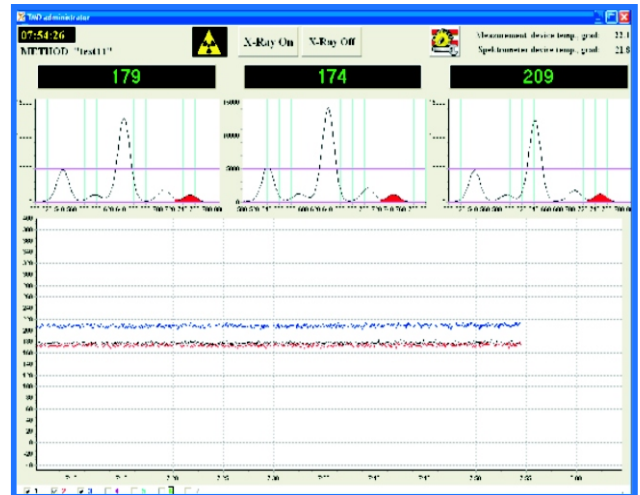
Parameters	Actual value
Substrate materials:	Any metal or non-metal
Coating materials:	Elements from Mg to U
Range of measured Al, Ti, TiO ₂ , Cu, Zn coating thickness on the stainless steel substrate, nm:	50 - 30 000
Range of measured Ni coating thickness on the stainless steel substrate, nm:	50 - 3 000
Range of measured Au coating thickness on the substrate, nm:	20 - 3 000
Relative error for measured time 5sec, %:	< 3 %
Operational temperature range, °C:	+ 5...+40
Radiation source:	X-ray tube
Detector type:	SDD with Peltier cooler
Power supply 50/60 Hz, VAC:	230, 380

Working window of the administrator software



User friendly software wizards allows to create a new method analysis in a few minutes.

Working window of the operator software for 3-channel analyzer



Multichannel structure gives a possibility to analyze many points of the strip simultaneously.