

M E T A L S C A N

1650

Portable Metals Analyzer

The Metalscan 1650 is a revolutionary Portable Metals Analyzer designed to give rapid semi-quantitative analysis and grade identification of metals on-site.

Its use of advanced CCD array detector technology makes the Metalscan 1650 extremely flexible. The spectrometer is small and is mounted in the hand-held probe eliminating the need for an expensive and fragile optical fibre coupling between the probe and controller.

The Metalscan 1650 can be supplied as a single base or multibase instrument using the same hardware. Extra bases can be added without any hardware changes, making upgrades easy and low cost.

As a tool for checking the identity of scrap, for incoming and outgoing quality control in production, and for checking material grades in plant maintenance and repair, the Metalscan 1650 is the right choice.



T E C H N I C A L D A T A

FEATURES

- Simple and easy to use
- No setting up or adjustments
- No user calibration required
- Portable – weighs just 20kgs/44lbs
- Stable and robust
- Multi-base capability – Fe, Ni, Al, Cu, Zn, Ti, Mg, Co, Zr all available in the same instrument
- Low capital and operating costs
- Semi-quantitative analysis and grade identification
- Pass/Fail rapid sorting
- Analysis of ferrous and non-ferrous metals
- CCD array detector with 2048 sensors
- Integral LCD screen and printer

OPTICAL SYSTEM

- Miniature optical system in probe
- No fibre optic coupling
- Completely sealed against dust contamination
- Dispersion by holographic diffraction grating
- Wavelength range 185 to 410nm
- Linear CCD detector with 2048 sensors
- Unlimited element channels selected by software
- Automatic profiling by software

SPECTROMETER CONTROL AND DATA PROCESSING

- 486 SLC CPU, 4MB RAM, 33 MHz
- Windows 3.11
- Floppy disk drive 3.5", 1.44 MB
- Min 500MB IDE Hard Drive
- Full computer PC AT keyboard
- Integral 16 column impact printer
- Integral 1/4 VGA LCD display
- External printer port
- Optional mouse
- Optional full VGA monitor

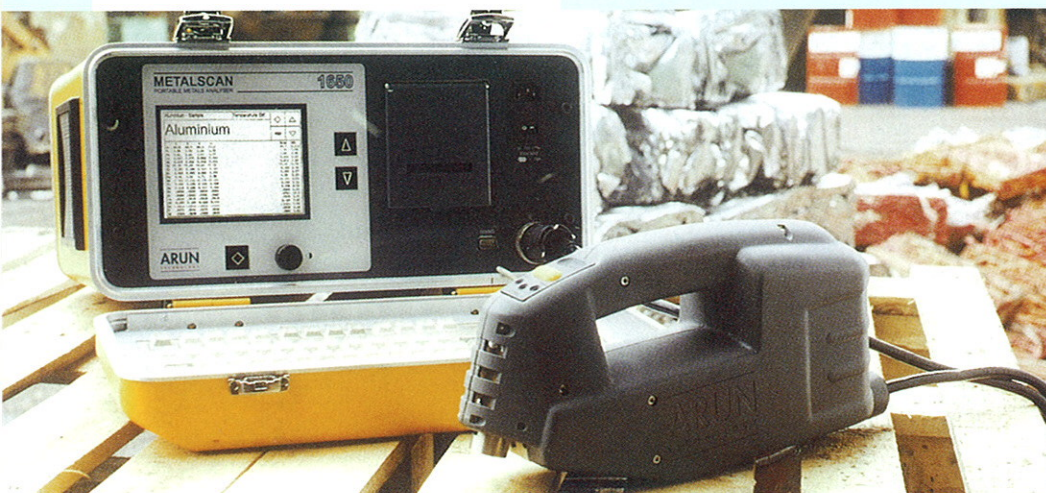
SOFTWARE

OPERATION

- Simple multi-choice menu with only 3 buttons to operate

ANALYTICAL

- Factory calibrated
- Grade table factory installed
- Automatic selection of calibration
- Automatic line switching
- Automatic additive and multiplicative corrections
- Flagging of results beyond calibration range
- Pass/Fail mode with 100 programs
- User editable printout headers
- User editable Pass/Fail reports



We have moved

ARUN
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SOURCE

- Regulated DC arc 1A to 3A under computer control
- Excitation parameters automatically selected according to analytical program
- Arc ignition by automatic spark
- Power only supplied while GO button is being pressed

PROBE

- Robust moulded resin housing
- GO and RESET/PRINT buttons
- LED indicators for POWER, PASS and FAIL
- Re-usable 7mm diameter silver electrode
- Stows in controller case

QUALITY

- Retrieval of stored results (option)
- Logging of results to hard disk or floppy disk (option)

DIMENSIONS

- Instrument 460x480x210mm/18x19x8ins (W x H x D)
- Shipping case 625x664x387mm/25x26x15ins (W x H x D)

WEIGHT

- 20Kgs/44lbs approx.

ELECTRICAL REQUIREMENTS

- Universal line input 90 - 260 VAC, 50/60 Hz
- Automatic adjustment to voltage input (if in range above)

All specifications are subject to change without notice



ISO 9001
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Company

BS EN ISO 9001: 1984 Cert No. FM 33085