

BARNES INTERNATIONAL

MAG-TESTER 3000

for Windows® 2000, XP, Vista and Windows 7

A NEW DIMENSION IN QUICK, ACCURATE AND RELIABLE MAGNETIC STRIPE TESTING
EASY TO UNDERSTAND AND USE BY PRODUCTION/QC PERSONNEL – A PRECISION TOOL FOR EXPERTS

- THE INDUSTRY STANDARD MAGSTRIPE ANALYSER
- POWERFUL ANALYSES –BY CARD AND BATCH
- TRENDS PREDICT ENCODER MAINTENANCE
- AUTOMATIC BATCH TEST CERTIFICATE
- INSTANT ZOOM TO ERROR FEATURE
- USB INTERFACE TO ALL PCs INCLUDING LAPTOPS
- HICO, LOCO (+ 6500e option); ENCODED AND UNENCODED
- CARDS AND TICKETS
- ISO 7811-2-6: 2008 CAPABILITY (ISO 7811-8 option)
- FULLY EXPORTABLE TEST RESULTS DATABASE (FOR Gage R&D, Six Sigma analysis, etc.)



- Powerful Mag-Tester 3000 Version 3 software for Win 2000, XP, Vista and Windows 7. With USB PC interface providing easy set up on any desktop or laptop PC, plus fully exportable test results database –see Version 3 Software datasheet.
- Tests high and low coercivity (& 650 Oe) unencoded and encoded cards and tickets (ISO 7811-2-6: 2008 plus ISO 10373-2).
- Robust, accurate and easy to use in both production QC testing and laboratory analysis.
- Automatic Calibration by user – no need to return analyser to Barnes for routine calibration.
- Intelligent Analysis software zooms to display of faulty media or encoding locations.
- Comprehensive QC mode gives batch analysis, histograms, trends and ISO 9000 Batch Test Results Certificate.
- Complete test results database – fully exportable for Gage R&R and Six Sigma analysis purposes, etc.
- Full colour printing.

Hundreds of issuers and suppliers worldwide of magnetic stripe cards and tickets are using existing **MAG-TESTER 2000 and 3000** analysers to enable them to meet the high standards demanded by their customers.

The **MAG-TESTER 3000** for Windows® builds on this experience, bringing an extra dimension in new test and analysis capability.

MasterCard.
Vendor Program
 2009 Participant



VISA
 Visa Partner Network
 Participant

MAG-TESTER 3000 Unencoded and Encoded magstripe analyser with PC or Laptop controlled Version 3 Windows® based software.

- **MAG-TESTER 3000 for Windows software** - compatible with Windows 2000/XP/Vista/ Windows 7 operating systems.
- USB PC/Laptop interface – fast and easy to install anywhere
- Dual HiCo/LoCo transports -stable, purpose built, precision ISO based magstripe analysis.
- Automatic analysis on all three (or four - ATB) tracks with fast test cycle times.
- Easy for production QC batch testing operation by untrained, non technical operators.
- Comprehensive analysis displays giving expert testers all the power of Windows® data and display manipulation through to full analysis of each individual flux transition.
- PCI DSS, PA-DSS compliant access by logon and password giving selected levels of operation. Plus log of usage.
- Test results database fully exportable for external Statistical Process Control, etc
- Integral Database Management structure allows comprehensive QC batch analysis -results, histograms and trends. A new, powerful aid to unencoded and encoded card production management.
- Automatic Batch Test Result Certificates for ISO 9000 environments – and for customer confidence.
- Cards: lateral stripe, ID1 size. Embossed or unembossed.
- Thin tickets: lateral or central stripes, ID1 size. Plus variants, (eg ATB, Edmundson).
- Analysis of High and Low coercivity unencoded and encoded magnetic stripes, related to ISO 7811-2: 2001, ISO7811-6:2008 (option for ISO7811-8:2008) and ISO 10373. (Custom test limits can be set by the user; other standards available as variants – including 650 Oersted media tests).
- Separate uncoated write and read heads for each transport are used; this ensures ISO recommendations are met and results are not affected by stray magnetic flux from single gap write/read heads. (Ceramic coated heads are available –recognised by ISO for extended life in QC environments).
- High precision motorised transports simulate field conditions by carrying the cards and tickets across the head. *This helps to identify mechanical problems affecting the magnetic performance of the card or ticket (e.g. oversize cards).*
- A high resolution optical sensor tracks continuously the position and speed of the card or ticket (every two thousandths of a millimetre).
This unique feature ensures accurate measurement of bit spacing, jitter and amplitude throughout the analysis.
- To ensure even greater accuracy the heads are mounted on an automatically positioned precision lateral slide, enabling accurate head to track positioning. Thus each head can be accurately and selectively positioned at the required track location on each transport.
This significantly reduces operation complexity when testing multi track cards or tickets. Using this feature the heads can be positioned at non-standard track locations automatically from the PC keyboard.

Key Analysis Features

Analysis of encoded stripes includes:

- ISO 7811-2 and ISO 7811-6 Tables 2-7 tests
- Automatically test any or all 3 ISO tracks
- Variable Test Track location (set by user, via PC)
- Character Count, Data, Parity, LRC
- Leading/trailing zeros, start/end sentinels
- Signal amplitudes, signal waveform
- Bit density, Bit spacing
- Bit/Bit spacing variation (Jitter)
- Reverse & Repeat read tests (encoded cards)

Analysis of unencoded stripes includes:

- ISO 7811-2 and ISO 7811-6 Table 1 tests
- Magnetic saturation curve – multiple curves
- Erasure
- Extra pulse
- Resolution
- Demagnetisation (HiCo)
- Waveform (HiCo – forward and reverse)
- Programmable Waveform test method
- Can test to other standards

Plus

- Automatic Zoom to Error software.
- Full feature QC Batch analysis, including histograms and trends.
- Automatic ISO 9000 Batch Test Results Certificate.
- **NEW Export facility** to a .csv file for Excel/ Access - for Gage R&R/ Six Sigma Analysis, etc.
- Optional ISO 7811-8 tests (650 Oersted).

Compatible with: Microsoft Windows® 2000, XP, Vista and Windows 7.



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