TES INSTRUMENTS

MK 3 ELECTRONIC DECELEROMETER

- ⇒ MEASURES TRUE VEHICLE DECELERATION
- ⇒ REMOVES PEAKING DUE TO INITIAL VEHICLE PITCHING
- ⇒ PROVIDES A HARDCOPY PRINT-OUT OF UP TO 99 DECELERATIONS PLUS CALCULATED AVERAGES OR THIRDS
- ⇒ FLAGS VALUES 10% BELOW AVERAGE AND DISREGARDS TESTS CANCELLED MANUALLY OR AUTOMATICALLY
- ⇒ OFFERS SELECTION OF OPERATOR AND RUNWAY NAMES THROUGH REMOVABLE KEYBOARD/DISPLAY
- ⇒ PROVIDES OPTIONAL AUTOMATIC TRANSMISSION TO PC AT SNOWDESK/ATC VIA TRACR II® SYSTEMS

The TES Instruments Mk 3 Electronic Decelerometer is a compact instrument for measuring and recording the maximum deceleration possible on a roadway or airport surface.

The Mk 3 is the latest and most sophisticated generation of TES Instruments' coefficient of friction test devices, originally developed for Transport Canada (TC). The Mk 3 is approved for use in Canada by TC and in the USA by the FAA.

The portable Mk 3 is designed for simplicity of installation and operation. The capabilities and operational ease of the device surpass those of any other portable decelerometers on the market. It eliminates the operator's burden of manually calculating the "RFI" average or runway thirds.

Utilizing high speed microprocessor and the latest accelerometer technology, low power consumption & wide operating temperature range, accurate results and high reliability are achieved.

A built-in self test feature guarantees reliable results and warns the operator of detected malfunctions.

A 32 character liquid crystal display with back-lighting clearly displays the test results and various status messages to the operator even during night time operation. The display can be removed from the chassis to be placed in any convenient location to afford an unobstructed view.

The name of the airport, a list of runways and a list of operators can all be loaded into the Mk 3 by the user through a personal computer connection.

The alphanumeric printer provides hardcopy results of the friction tests including date and time, stop number, deceleration rate of each stop & full-length or runway-thirds average deceleration, with highlighting of values deviating from the average. Airport name, runway identification and operator identification are also printed.

Also available is a universal Mounting Kit which supports quick leveling of the Mk 3 and relocation of the instrument to other vehicles.

The unit can also be configured to control the switching of additional vehicle based systems such as ABS during friction testing.

Over 300 TES Electronic Decelerometers are currently in service in Canada, the U.S. and Europe.

TES INSTRUMENTS

MK 3 ELECTRONIC DECELEROMETER

SPECIFICATIONS

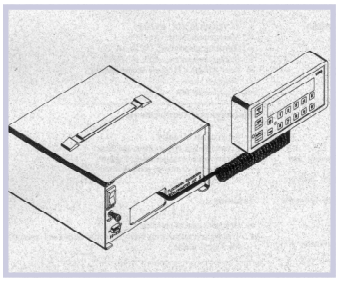
STANDARD FEATURES

- 32 character LCD display with back lighting for night visibility
- Tactile switches on detachable keyboard for selecting operations
- Firmware removes artificial peaking from measurements
- Allows manual cancellation of decelerometer readings
- Automatic cancellation of decelerations deemed “faulty”
- Provision to temporarily suspend operation
- Stores up to 99 decelerations
- Average value and runway-thirds calculations
- Automatic hardcopy printout of results
- Highlights reading 10% or more below average
- Time and date recording
- Printout of airport, runway and operator ID
- Field programmable airport name, and lists of runways and operators through a PC (Mk 3 Windows download program)
- Selection of runway identification and operator with built-in selection keys
- Simple installation and removal when installed with optional universal mounting kit
- Convenient and simple to operate
- Micro-processor based, low maintenance design
- Uses standard roll paper and inked ribbon cassette available at stationary stores
- Battery powered calendar clock

OPTIONAL FEATURES

+ Universal mounting kit
+ Custom built carrying/shipping case
+ Interface to TRACR II® for electronic runway condition reporting
+ Wireless transmission of data using TRACR II® Systems

TES Instruments specializes in the development, prototyping, testing, manufacture and calibration of custom components and systems.



The TES Instruments product description, as stated herein, is a summary of features and specifications. The manufacturer reserves the right to change or modify any of the components, functions or features of the product at any time.

GENERAL

- 11 VDC to 18 VDC operation
- Measurement Range: 0 to 1.00 g
- Operating temperature: 0°C to +40°C
- Storage temperature: -20°C to +60°C
- Size (W x D x H): 225 mm x 210 mm x 140 mm
- Weight: approx. 1 kg
- Clock battery life: >2 years

MAINTENANCE REQUIREMENTS

- Replacement of battery
- Replacement of printer ribbon and paper
- For preventative maintenance: Factory re-calibration of internal accelerometer measurement system

TRAINING

- Operator’s manual provided
- Training courses covering the theory of friction testing and operation of the Mk 3 are available

INSTALLATION

- Optional universal mounting kit
- Mk 3 snap-on installation to mounting kit and quick disconnect plug to Mk 3 Wiring Harness or Mk II Connector Box

WARRANTY

- Standard 1 year TES Instruments warranty

For further information, write or call:

TES Instruments
Suite 303, 1 Stafford Rd. E.
Ottawa, ON Canada K2H 1B9
Tel. (613) 832-2687
Fax. (613) 832-2721

Or our worldwide distributor:

Tradewind Scientific Ltd.
PO Box 3262, Station D
Ottawa, ON K1P 6H8 Canada
Tel. (613) 238-1246
www.Tradewind.aero