



MODEL 655 COMPACT BALANCE ANALYZER

Ideal size for field use. 4"H x 8½"W x 9"D
in size. Weighs only 6.5 lbs.

Large, easy-to-read, digital
LCD meter.

Meter mode for overall vibration
readings. Strobe mode for stop
motion analysis. Balance/analyze
mode for balancing and
signature analysis.

Tunable filter range
of 300 CPM to
100,000 CPM in
two ranges.

High intensity strobe light
for balancing and stop
motion analysis.

Wide frequency range,
high sensitivity transducer
allows vibration readings in
displacement and velocity.

The Vitec **Model 655 Compact Balance Analyzer** is used for in-place balancing, vibration measurement and stop-motion analysis of rotating machinery.

Its color coded front panel controls and 6.5 lb. weight make it an easy-to-use field instrument. A single switch selects one of four modes of operation. The meter mode allows the operator to measure the overall level of vibration in displacement or velocity. The strobe mode offers user-selectable strobe firing rates for stop-motion analysis. An analyze mode allows the **Model 655** to be tuned to specific frequencies for signature analysis. Balancing is accomplished in the phase mode. The tunable filter is based on a programmable digital LSI chip to give a high

degree of accuracy and drift-free readings.

Although light in weight and small in size, the **Model 655** offers features found normally only on larger, more expensive analyzers. An AC output jack can be used to view the incoming signal on an oscilloscope. An X/Y recorder output is provided for hard copy signature analysis purposes. Switch selectable dual pickup inputs make two-plane balancing operations easier. All vibration readings are based on a true RMS circuit to provide the most accurate vibration indications possible.

The **Model 655** will operate for up to 40 hours on a single charge in the meter or analyzer mode and up to one hour in the strobe/balance mode.

SPECIFICATIONS:

MODES: Displacement (mils),
Velocity (in/sec),

RANGES: 0 to 2, 20, 200

FILTER: Manual tunable
bandpass, $Q=20$

ACCURACY: $\pm 5\%$ from 12 Hz
to 1 KHz.

MEASUREMENT CIRCUIT:
True RMS, reading peak

DISPLAY: $3\frac{1}{2}$ digit LCD

POWER: 1.9 AH rechargeable
Gelcell Battery

BATTERY LIFE: 40 hours min.
in meter/analyze mode,
1 hour in strobe/balance
mode

OPERATING TEMP.: 30°F to
120°F

INPUT: High output velocity
pickup (one or two),
switch selectable

OUTPUTS: Buffered AC pro-
portional to mode setting;
DC voltage proportional to
frequency and amplitude
for X/Y recorder

DIMENSIONS: 4"H \times 8½"W
 \times 9"D

WEIGHT: 6.5 lbs.



*PROTECTING THE MACHINES OF
PRODUCTION FOR OVER
TWO DECADES*

VITEC, INC.
24755 Highpoint Road, Cleveland, Ohio 44122
(216) 464-4670
Fax: (216) 464-5324

Your model 655 meter kit includes:



- Model 655 Compact Balance Analyzer Meter
- Transducer with coiled cable
- High intensity strobe light with 6-ft. cable
- Magnetic pickup clamp and pencil probe
- Shoulder strap
- Battery charger
- Internal rechargeable battery
- Vitec's Fourth Edition Vibration Primer

Optional accessories include:

- Briefcase style carrying case (shown above).
- Field style carrying case (not shown) which provides storage space for all accessories and allows use of **Model 655** while in the case.
- Two-plane balancing kit (TPBK) which provides an additional transducer, cable, magnetic clamp and briefcase style or field style carrying case to make two-plane balancing chores easier.
- Vitec **Model 802** (AC powered), or **Model 803** (AC/Battery Powered) X/Y recorder for hard copy signature analysis.
- "Balance Buddy" clipboard style balance computer to make balancing calculations fast and easy.