



INTRODUCTION

Epoch **Electronic Helicopter Weighing Kit** is designed primarily to cater the accurate weighing needs of Helicopter and aerospace vehicles, but can be used for other precision weighing application as well as for the calibration of force generating machines. These kits are factory calibrated.

Epoch combines state-of-the-art electronic and mechanical design features to provide the highest quality weigh measurement. Weighing kits are microprocessor based and are more accurate. The capacity, resolution and decimal point are user programmable.

It is recommended that the kit will be returned to the factory for routine calibration every 12 months or sooner if trouble is observed or erroneous readings are suspected. Cables to the indicator mounted in the case where the weight, in kilograms, is read directly on digital display.

The load imposed on a load Cell produces a signal in the cell directly proportional to the load. The signal is transmitted through connecting the connector to the display unit.

DESCRIPTION :

The Kit contains necessary equipment for weighing Helicopter with the exception of specialized jacks and power source. The kit can be operated with built in battery and it can be charged by 9V DC adapter. The portable kit to house necessary equipment for weighing are provided.

The Kit contains three digital readouts one for each channel. In this case, the electronic weigh portable indicator, three load cells fitted with jack adapters one for each channel, three Load Cell Cables, three 9 Volts DC Adaptors and three Steel Balls are readily removable from their particular spaces provided in the case for weighing operation.

DIGITAL INDICATORS :

The kit contains three Hand Held Digital Indicators. The indicator is accessible for maintenance and easily removable from the case. All circuits are composed of the finest components available in the market. This circuitry is contained in an RFI shielded, dust proof box to protect the instrumentation from possible adverse environment encountered during the operation of the kit. The indicators are compact portable weight indicators. It is having built in battery, membrane keypad for calibration.

LOAD CELLS :

The kit contains three hermetically sealed strain gauge load cells. These cells are precision devices and will withstand 150 % overload without damage. Dropping the cell, however, could damage either the electrical connector or the diaphragm disabling the cell or affecting its accuracy. Although the cells provided with each kit appear identical, they are not interchangeable; each must be connected to the kit observing the color coding. The load cells have a bottom adapter. The top surface will have 15.0 mm radius concave surface to receive either the spherical surface of adapter or the Helicopter jack pad directly.

CABLES :

The three 15 mtrs. Load Cell cables are provided with connectors on both sides for easy fixing and stored in the case when not in use.

DCADAPTERS :

The three 9 Volts DC adapters are provided for charging the portable indicators. These adapters can be stored in the case when not in use.

STEEL BALL :

For the purpose of mounting the cells under varying physical arrangements, steel balls are provided on request.