

## I. GENERAL DESCRIPTION

The Toledo SPEEDWEIGH series combines fast, accurate checkweighing performance with reliable industrial construction. Available in wide range of capacities, the SPEEDWEIGH series features an LED analog display for basic over/under indication, along with a highly readable six-digit weight display.

The SPEEDWEIGH series can be configured as three zones for simple over/under applications or as five zones to designate high and low acceptance. Independent zone tolerances are programmed through the keyboard providing maximum flexibility in establishing acceptable target weights.

Standard features include selectable units of measure (e.g. pounds & ounces, grams, and percent of target), independent zone tolerances, and RS232 data output for Toledo printers or computer interface. The SPEEDWEIGH series can be used with the following Toledo Industrial printers: 8804, 8806, 8855 (RS-232 version only), and 8860 printers.

## II. MODEL NUMBERS

The SPEEDWEIGH series has four model numbers. They are 3025, 3035, 3045, and 3055. The 3025 includes a scale base using a digital load cell. The scale base has a 9 X 9 platter. The 3035, 3045, and 3055 all include Toledo Scale bases with analog load cells.

<u>MODEL</u>	<u>MAXIMUM CAPACITY</u>	<u>SCALE BASE</u>
3025	20 lb/6 kg	Base w/Digital Load Cell
3035	150 lb/60 kg	Model 2300, 12"X12"Platform
3035	300 lb/150 kg	Model 2300, 18"X18"Platform
3035	600 lb/300 kg	Model 2300, 24"X24"Platform
3045	100 lb/50 kg	Model 1985
3055	400 lb/200 kg	Model 2095

## III. SYSTEM DESCRIPTION

The SPEEDWEIGH series has three major blocks, they are:

1. Display Board - receives weight data or error codes from the digital load cell, displays the weight and classification (or error code), transmits weight information for an optional printer to the Power Supply Board, interprets and reacts to keyboard entries.
2. Power Supply Board - furnishes the display board with the following:

- a. +10VDC for the regulated +5VDC supply on the display board.
- b. AC filament voltage for the vacuum fluorescent display.
- c. -30VDC supply for the vacuum fluorescent display.

The Power Supply Board also converts serial TTL Data from the Display Board to RS-232 for an optional printer, and supplies the required DC voltage for an Analog or Digital load cell.

NOTE: The Model 3025 uses a different Power Supply Board as compared to the 3035, 3045, and 3055 Models.

### 3. Load Cell

- a. The Digital Load Cell (3025 only) transmits weight or Error Codes to the Display Board. The weight is transmitted approximately ten times a second.
- b. An analog load cell (3035, 3045, 3055) takes the excitation voltage from the Power Supply Board and sends back a millivolt signal that varies with weight change.

## IV. SPECIFICATIONS

### A. Electrical and Physical Specifications

#### 1. Environment

The SPEEDWEIGH series will operate over a temperature range from 0 degrees C (32 degrees F) to 45 degrees C (113 degrees F) at 10 to 95% relative humidity, non-condensing.

Storage temperature is from -40 degrees C (-40 degrees F) to 70 degrees C (158 degrees F) at 10 to 95% relative humidity, non-condensing.

#### 2. Power Requirements

The SPEEDWEIGH series requires approximately 10 watts of power. The SPEEDWEIGH series, including the 3025-0001, requires between 102VAC and 130VAC at 59 to 61 hertz. The 3025-0002 requires between 205 and 240VAC at 49 to 51 hertz.

