

**2.2.2 Power Up Zero** - If AZM is disabled [34 0], then zero capture at power up will not occur. If AZM is enabled, when power is applied, zero is automatically captured if the weight is within  $\pm 2\%$  of scale capacity, and a no-motion condition exists. If zero cannot be captured, the zero symbol on the display will flash and recalibration will be required.

**2.2.3 Auto Zero Maintenance** - The instrument includes automatic zero maintenance which maintains the displayed zero in the center of the zero increment. This feature operates by subdividing the zero increment into ten minor increments and periodically determining whether the zero signal is within the center minor increment. If it is not, but is within the correction window, a minor increment is added to or subtracted from the signal to cause the displayed zero to be nearer to the center minor increment.

Auto zero maintenance will correct zero up to a selected limit of either  $\pm 2\%$  or  $\pm 20\%$  of scale capacity (determined by the pushbutton zero range) within a selectable window of either  $\pm 0.5d$ ,  $\pm 1d$ , or  $\pm 3d$ . Weight variations which occur at a rate of 0.04d per second or slower will be compensated.

AZM can be disabled in Setup and if disabled, the "zero" symbol will not be operative. If AZM is disabled, power up zero capture is also disabled. Also if pushbutton zero is disabled, AZM will also be disabled.

**2.2.4 Motion Detection** - "No Motion" requires 3 successive display readings within  $\pm 1.0d$ . Operations permitted only at No Motion are Print, Tare, Zero, and Zero Capture.

**2.2.5 Pushbutton Tare** - The Model 8505 is equipped with a TARE pushbutton on the front panel. When a weight, (i.e., a container) is placed upon the scale and the TARE button is pressed while there is no weight motion present, the tare weight (in minors) is stored in a storage register, then subtracted from the gross weight (in minors) signal to provide a net weight display of zero, and the net symbol is turned on.

**2.2.6 Auto Clear Of Tare** - Autoclear of tare is accomplished upon the return to gross zero after settling to no motion at 10 increments or greater above net zero. The autoclear software switch (SSW32) must be enabled.

**2.2.7 Legal For Trade (Tare Interlocks)** - Interlock features are provided, which can be disabled in Setup mode, to meet trade regulations for certain jurisdictions, as follows:

- Tare may be cleared only when the gross weight is at zero.
- Tare pushbutton can only be pressed when in gross mode.
- The gross and net symbols will not turn off when the scale is in motion.

### 3.0 SPECIFICATIONS

**3.1 ELECTRICAL** - The wall transformer converts the AC input voltage to a nominal 12 VDC output to the display. The voltage requirement for use with the wall transformer is 120 VAC,  $\pm 10\%$  to  $-15\%$ .

#### 3.2 ENVIRONMENT

**3.2.1 Operating Temperature** - The Toledo Model 8505 is designed to meet NBS HB-44 5000d and 3000d OIML requirements to operate in a temperature range between:

$+14^{\circ}\text{F}$  to  $104^{\circ}\text{F}$  ( $-10^{\circ}\text{C}$  to  $40^{\circ}\text{C}$ ) 0 to 95% relative humidity, non-condensing.