

## SCHEDULE

### Variant: 1955.1

Current Date of Issue: 02 September 2013

|                                     |   |
|-------------------------------------|---|
| <b>Pattern:</b>                     | Weighing Instrument   |
| <b>Make:</b>                        | Taiwan Scale (Tscale)   |
| <b>Model:</b>                       | ATP, ASP, QHC series  |
| <b>Submitter:</b>                   | Maximus Scales Limited  |
| <b>Maximum Capacity (Max):</b>      | 3 kg ≤ Max ≤ 30 kg (see table 1)  |
| <b>Minimum Capacity:</b>            | 20e (see table 1)   |
| <b>Verification Scale Interval:</b> | ≥1g (n≤3000, per partial weighing range; Max of two partial weighing ranges). See table 1   |
| <b>Class:</b>                       | III   |
| <b>Load Receptors:</b>              | 230 mm x 300 mm   |
| <b>Tare:</b>                        | - Max   |
| <b>Conditions of Approval:</b>      | <ol style="list-style-type: none"><li>1. Model ASP Series has customer display mounted on a pole attached to the instrument. If the customer display is mounted separately, it shall be located in a clear visual relationship and proximity to the weighing platform.</li><li>2. Model QHC Series instruments shall be marked 'NOT FOR TRADING DIRECT WITH THE PUBLIC' (or similar wording) unless the single display is located such that all primary indications and the weighing platform are clearly and simultaneously visible to both the vendor and the customer.</li><li>3. Adjacent to level indicator a level notice stating "incorrect if not truly level" or a similar wording must be shown.</li><li>4. This Certificate only covers compliance with respects to the relevant sections of the Weights and Measures Act and Regulations and should not be construed as guarantee of compliance with any safety requirements.</li><li>5. The Measurement and Product Safety Service (MAPSS) reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.</li></ol> |

### Description:

#### VARIANT 1:

The variant approves the ATP/ASP Series instruments to have an extended range of maximum capacity as detailed in Table 1. The variant also approves Model QHC Series and is further detailed in this certificate.

The Taiwan Scale (Tscale) model ATP, ASP, QHC series (\*) are Class III non-automatic, self-indicating, price-computing, single or multi-interval weighing Instruments and are configured as detailed in table 1.

(\*) the model number may have a suffix of alpha-numeric characters reflecting the maximum capacity of the instrument.

#### Construction:

##### Enclosure:

The cabinet housing is of a plastic construction and has a stainless steel load receptor (or may be used with a tray type platter).

**Display:**

The pattern uses a LCD type display with white LED backlight incorporated into the plastic housing (see photos) and is equipped with an operator's keypad (may be provided with a Price Look Up (PLU) facility).

- Model ATP series: Both the operator and customer display each consists of three individual displays – Weight, Unit Price and Total Price. This model instrument has a pole-mounted LCD type customer display. The column/pole is attached to the instrument.

- Model ASP series: Both the front operator display and customer display (mounted on pole) each consists of three individual displays – Weight, Unit Price and Total Price. This model instrument has a pole-mounted LCD type customer display. The column/pole is attached to the instrument.

- Model QHC series: The operator display consists of three individual displays – Weight, Unit Price and Total Price. This model instrument is NOT equipped with a customer display.

**Load Cell:**

ZEMIC Type L6D C3 load cell is used.

**Power Supply:**

- Built in 6V rechargeable battery unit
- 230V AC, 50/60 Hz to 9V DC adapter

**Display Check:**

A display check to ensure that all segments are active is initiated whenever power is switched on.

**Additional functions:**

Instruments may have certain additional functions such as counting function, percentage function and checking functions for upper/lower limit.

Any of these additional functions are NOT approved in this certificate.

**Interfaces:**

The instruments may be fitted with interfaces for the connection of auxiliary and/or peripheral devices. Type of interface is RS232.

Note: The Auxiliary devices shall meet the following conditions:

(i) have no function that would cause a variation in the display of the measured or computed quantities

(ii) is not capable of transmitting any data or instruction into the weighing instrument, other than to release a printout, checking for correct data transmission or validation

(or)

As indicated at any time by the Type Approvals Officer.

**ZERO SETTING DEVICES:**

Zero is automatically corrected to within  $\pm 0.25e1$  whenever power is applied and whenever the instrument comes to rest within  $0.5e1$  of Zero.

The Initial zero setting device of the pattern has a nominal range of not more than 20% of the maximum capacity of the instrument.

The Instruments have a semi-automatic zero setting device with a nominal range of not more than 4% of the maximum capacity of the instrument.

The instruments are equipped with a zero-tracking feature which operates over a range of 4% of Max and only operates when the scale is at gross zero and there is no motion in the weight display.

**TARE:**

Tare: A semi-automatic subtractive tare device of up to max capacity may be fitted.

**METROLOGICAL MARKINGS:**

Instruments carry the following markings:

Manufacturer's mark, or name:

Accuracy class

Pattern approval number:

Maximum capacity Max ...../..... g or kg #

Minimum capacity Min ..... g or kg #

Verification scale interval e = ...../..... g or kg #  
 Maximum subtractive tare T = - ..... g or kg  
 Serial number of the instrument .....  
 # These markings are also shown near the display of the result.

**Sealing:**

The sealing must be carried as detailed below:  
 (i) An approved type adhesive destructible label or a lead type seal must be used to restrict opening the instruments cabinet housing. This can be achieved using sealing method 'A' or 'B' as shown in the sealing photos.

And

(ii) Apply an approved type adhesive destructible label over the calibration switch (under the instrument) as indicated in the sealing photos.

Removal of this seal deems the instrument unstamped.

**Mark of Verification:**

The approved type seal used to inhibit access to calibration functions of the instrument shall carry a Mark of Verification. Removal of seal deems the instrument not verified.

**Levelling:**

The Instruments are equipped with adjustable feet and a level bubble. Adjacent to the level indicator is a notice "Instrument incorrect unless level" or similar wording.

**Temperature:**

-10° C to +40° C

Variant 1 - Table 1 - Configuration Details

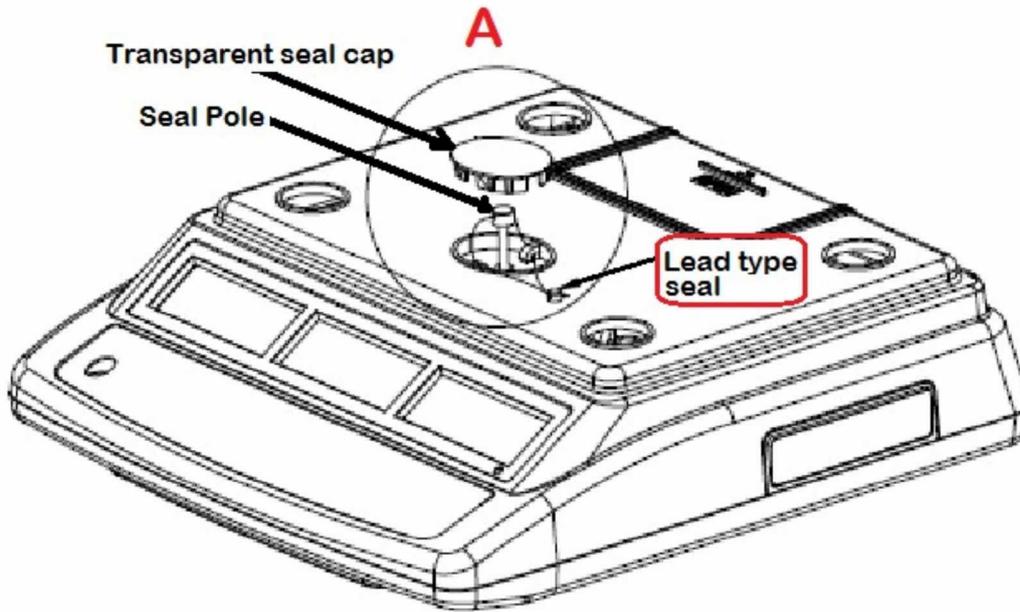
**Models**

| Model             | Max      | e      | Min       | Modem           | No of Load cells | Load cell type | E <sub>max</sub> |
|-------------------|----------|--------|-----------|-----------------|------------------|----------------|------------------|
| ASP<br>ATP<br>QHC | 3 kg     | 1 g    | 20 g      | Single interval | 1                | ZEMIC L6D C3   | 5 kg             |
|                   | 6 kg     | 2 g    | 40 g      |                 |                  |                | 10 kg            |
|                   | 15 kg    | 5 g    | 100 g     |                 |                  |                | 20 kg            |
|                   | 30 kg    | 10 g   | 200 g     |                 |                  |                | 40/50 kg         |
|                   | 3/6 kg   | 1/2 g  | 20/40 g   | Multi-range     |                  |                | 10 kg            |
|                   | 6/15 kg  | 2/5 g  | 40/100 g  |                 |                  |                | 20 kg            |
|                   | 15/30 kg | 5/10 g | 100/200 g |                 |                  |                | 40/50 kg         |
|                   | 3/6 kg   | 1/2 g  | 20 g      | Multi-interval  |                  |                | 10 kg            |
|                   | 6/15 kg  | 2/5 g  | 40 g      |                 |                  |                | 20 kg            |
| 15/30 kg          | 5/10 g   | 100 g  | 40/50 kg  |                 |                  |                |                  |

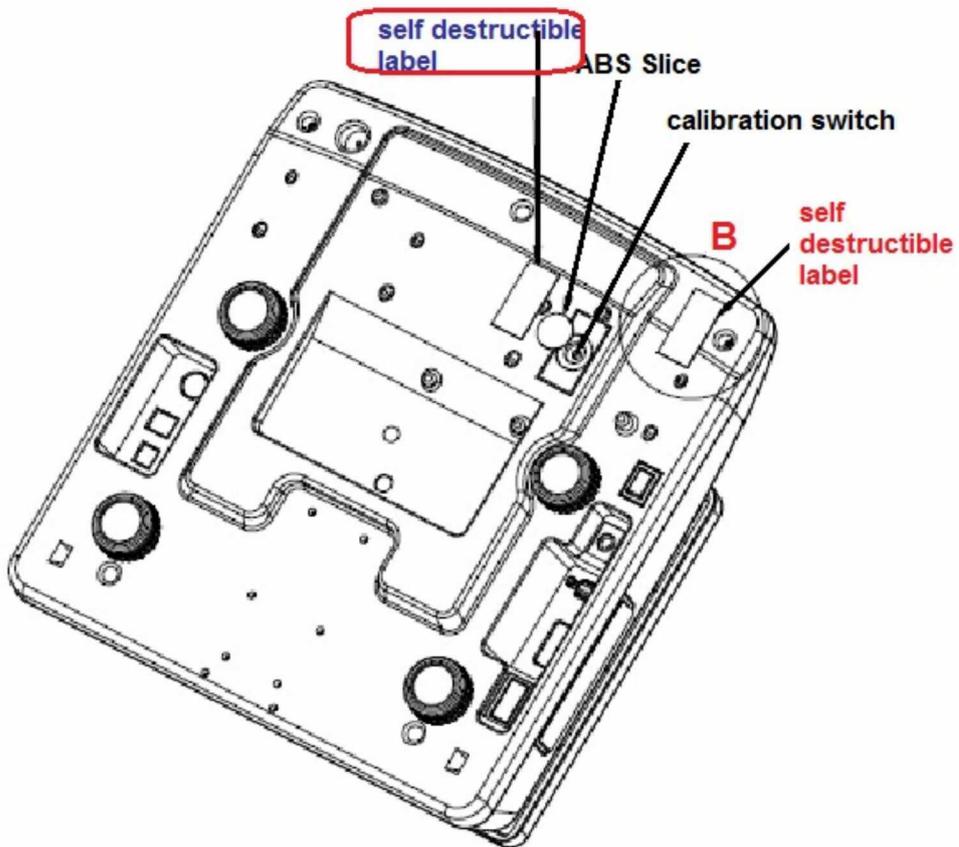
Variant 1 - Figure 1 - T-Scale Model QHC Weighing Instrument



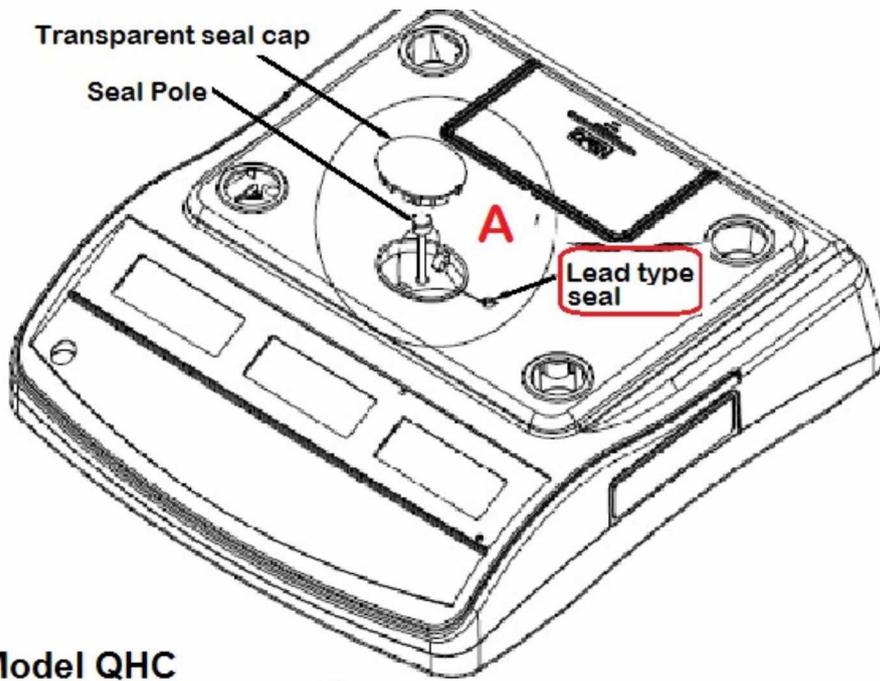
Variant 1 - Figure 2 - Typical Sealing Method - Model ASP and ATP Weighing Instrument



Model ASP / ATP



Variant 1 - Figure 3 - Typical Sealing Method - Model QHC Weighing Instrument



**Model QHC Series**

