



CANCELLED 0/3  
31-12-90

# NATIONAL STANDARDS COMMISSION

## WEIGHTS & MEASURES (PATTERNS OF INSTRUMENTS) REGULATIONS

### REGULATION 9

#### SUPPLEMENTARY CERTIFICATE OF APPROVAL S125

This is to certify that an approval has been granted by the Commission that the pattern and variants of the

Ultra Model 9100 Mass and Data Terminal and Printer

submitted by Ultra Scales Pty Ltd  
33-35 Judge Street  
Sunshine, Victoria, 3020

are suitable for use for trade.

The approval of the pattern and variants is subject to review on or after 30/10/86.

All instruments purporting to comply with this approval shall be marked NSC No S125 in addition to the approval number of the pattern to which they are connected.

Relevant drawings and specifications are lodged with the Commission.

Signed

Executive Director

#### Descriptive Advice

Pattern: approved 24/11/81

. Ultra Model 9100 Mass and Data Terminal and Printer.

Variants: approved 24/11/81

1. With video display.
2. In alternate housings.

Technical Schedule No S125 dated 4/12/81 describes the pattern and variants 1 and 2.

Variant approved 4/6/82

3. Without the printer.

Technical Schedule No S125, Variation No 1 dated 5/7/82 describes variant 3.

5/7/82

...../2

Filing Advice

Certificate of Approval No S125 dated 4/12/81 is superseded by this Certificate and may be destroyed. The documentation for this approval now consists of:

Certificate of Approval No S125	dated 5/7/82
Technical Schedule No S125	dated 4/12/81
Technical Schedule No S125 Variation No 1	dated 5/7/82
Test Procedure No S125	dated 4/12/81

5/7/82



# NATIONAL STANDARDS COMMISSION

## TECHNICAL SCHEDULE No S125

Pattern: Ultra Model 9100 Mass and Data Terminal and Printer

Submittor: Ultra Scales Pty Ltd,  
33-35 Judge Street,  
Sunshine, Victoria, 3020.

### 1. Description of Pattern

#### 1.1

The pattern (Figures 1 and 2) is an Ultra Model 9100 mass and data terminal and printer intended for use in conjunction with the Ultra Minipond II digital indicator approved in Certificate No 6/10B/32. It provides a permanent record of gross, tare and net masses on multiple-copy tickets or paper-tape rolls, or a combination of both.

The formats of the ticket will vary; a typical format is shown in Figure 3.

The information to be printed is derived from two sources:

- (a) the digital indicator; and,
- (b) the terminal keyboard. Figure 4 shows a typical keyboard layout.

The terminal has electronic facilities enabling it to accept and sum mass information from one or two digital indicating weighing instruments. A typical ticket for this use is shown in Figure 5.

The indicating weighing instrument(s), terminal and printer are interconnected as shown in Figure 6.

#### 1.2 Sealing

1.2.1 The serial numbers of the terminal and the printer are sealed to the instrument or instruments to which they are connected, either all together on a nameplate, or on tags sealed to the instrument.

1.2.2 The sealing of any instrument connected to the terminal is as described in the Technical Schedule relating to that instrument.

#### 1.3 Markings

The terminal is marked with the following data:

Manufacturer's name  
 Serial number of (a) Terminal  
                           (b) Printer  
                           (c) Headworks¶  
                           (d) Baseworks¶

NSC approval numbers in the form:

Accuracy class in the form:  
 Maximum capacity in the form:  
 Minimum capacity in the form:  
 Verification scale interval in the form:

NSC No S125  
 NSC No .....¶  
 (III)  
 Max .....¶§  
 Min .....¶§  
 d = e = .....¶§

¶ For each headwork and basework.

§ These markings are repeated in the vicinity of each reading face.

If more than one instrument is used in combination, the system graduation value will be the same as the smallest graduation value of any instrument connected to the terminal and the system verification scale interval will be equal to the sum of the verification scale intervals of those instruments. The instrument will be marked:

System graduation scale interval, in the form:  $d = \dots\dots\dots$   
 System verification scale interval, in the form:  $E = \sum e = \dots\dots\dots$

2. Description of Variants

2.1 Variant 1

The terminal and printer with a video display (Figure 7).

2.2 Variant 2

The terminal and printer in alternate housings.

## TEST PROCEDURE No S125

Instruments to which the terminal and printer are connected are to be tested as described in the Certificate and Technical Schedule which relates to that instrument, as amended below.

1. The mass indicated by the terminal and printer will be exactly the same as that indicated by the instrument to which they are connected.
2. If more than one indicating weighing instrument is connected to the terminal, the mass indication of each unit will be repeated on the terminal display together with the total mass. The printer will provide a ticket which repeats the mass data as displayed on the terminal indicator, exactly.

If more than one instrument is connected to the terminal, apply a load equal to maximum capacity +10e to any one of the instruments, and any load up to maximum capacity to each of the others.

The display will blank or indicate an overload error message and the printer will be prevented from printing until the overload condition is removed.

Repeat in turn for each other instrument.

### 3. Multiple Indications

Where the existing headwork is retained and used in conjunction with this instrument, the variation between indications on the digital indicator, mechanical headwork and printed mass, for the same load, shall not be greater than the absolute value of the maximum permissible error for that load.

The existing headwork should be marked according to its Certificate of Approval and tested in accordance with such.



# NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No S125

Variation No 1

Pattern: Ultra Model 9100 Mass and Data Terminal and Printer.

Submitter: Ultra Scales Pty Ltd  
33-35 Judge Street  
Sunshine, Victoria, 3020.

1. Description of Variant

Variant 3

The model 9100 mass and data terminal without the printer.

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FIGURE S125 - 1



Ultra Model 9100 Mass and Data Terminal

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FIGURE S125 - 2



Ultra Model 9100 Printer

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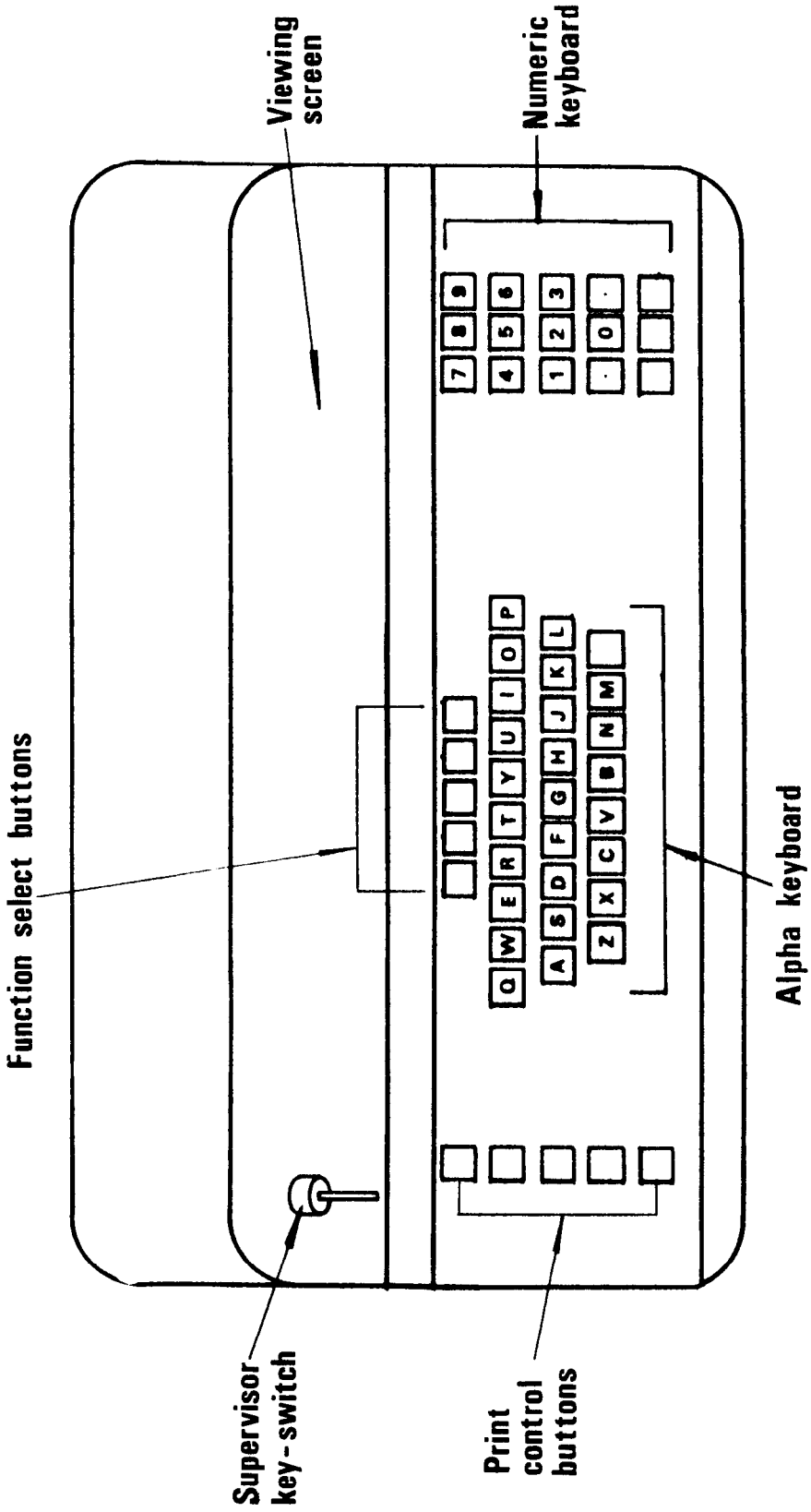


FIGURE S125 - 3

		WEIGHT TONNES
TIME & DATE	<i>10:44PM 23APR80</i>	<i>GROSS 53,45</i>
VEHICLE NO.	<i>GHH223</i>	
PRODUCT NO.	<i>14E</i>	
TIME & DATE	<i>11:44PM 23APR80</i>	<i>TARE 11,05</i>
VEHICLE NO.	<i>GHH223</i>	
PRODUCT NO.	<i>14E</i>	<i>NET 42,40</i>
WEIGH PRICE		<i>\$15,00/TONNE</i>
AMOUNT DUE		<i>\$636,00</i>

Typical Ticket - actual size

FIGURE S125 - 4



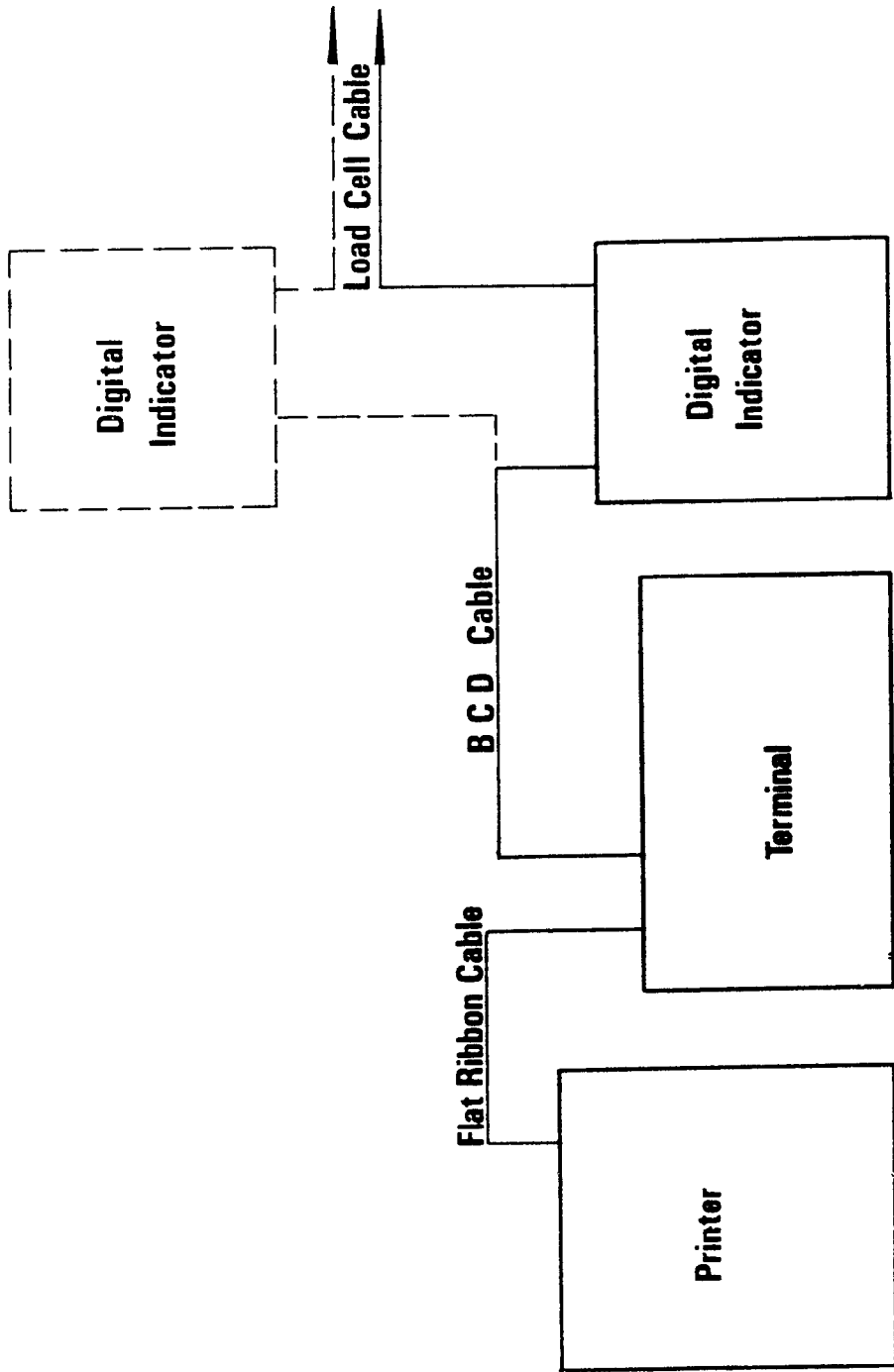
4/12/81

FIGURE S125 - 5

		<b>WEIGHT TONNE</b>
<b>TIME &amp; DATE</b>	<i>10:44PM 28APR80</i>	<i>GR. A 30,00</i>
<b>VEHICLE . CARRIER</b>	<i>GHH677 5BBHIS</i>	<i>GR. B 23 45</i>
<b>D/D NO. PRODUCT</b>	<i>12345 66D123</i>	<i>GR.TL 53,45</i>
<b>TIME &amp; DATE</b>	<i>11:44PM 23APR80</i>	<i>TR. A 6,00</i>
<b>VEHICLE . CARRIER</b>	<i>GHH677 5BBHIS</i>	<i>TR. B 5,05</i>
<b>D/D NO. PRODUCT</b>	<i>12345 66D123</i>	<i>TR.TL 11,05</i>
		<i>NET 42,40</i>

Typical Ticket from Terminal with two Indicators

FIGURE S125 - 6



Schematic Drawing of Interconnection of Components

FIGURE 5125 - 7



Ultra Model 9100 with Video Display (Variant 1)

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