

National Standards Commission



Certificate of Approval

No 6/9C/245

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

This is to certify that an approval for use for trade has been granted in respect of the

GEC Model LP400E Weighing Instrument

submitted by Colonial Scale Co Pty Ltd
(on behalf of)
General Electrodynamics Corporation
PO Box 150089
Arlington Texas 76015
USA

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.



CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/3/97.

This approval expires in respect of new instruments on 1/3/98.

Instruments purporting to comply with this approval shall be marked NSC No 6/9C/245 and only by persons authorised by the submitter.

It is the submitter's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the Commission and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with the Commission's Document 106.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

Special:

Values obtained by the summation of readings from one or more instruments shall not be used for trade as the uncertainty of such measurements could exceed the maximum permissible errors for class 4 weighing instruments.

DESCRIPTIVE ADVICE

Pattern: approved 10/2/92

- A GEC model LP400E self-indicating class 4 platform weighing instrument of 9000 kg maximum capacity with a verification scale interval of 50 kg.

Technical Schedule No 6/9C/245 describes the pattern.

FILING ADVICE

The documentation for this approval comprises:

Certificate of Approval No 6/9C/245 dated 9/3/92
Technical Schedule No 6/9C/245 dated 9/3/92 (incl. Test Procedure)
Figures 1 and 2 dated 9/3/92



National Standards Commission

TECHNICAL SCHEDULE No 6/9C/245

Pattern: GEC Model LP400E Weighing Instrument.

Submittor: Colonial Scale Co Pty Ltd
(on behalf of)
General Electrodynamics Corporation
PO Box 150089
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1. Description of Pattern

A GEC model LP400E self-indicating class 4 platform weighing instrument (Figure 1) of 9000 kg capacity with a verification scale interval of 50 kg.

1.1 Platform

The platform has the weighing area supported by 6 hydraulically-actuated electronic load cells which are indirectly connected to the digital indicator.

1.2 Indicator (Figure 2)

The integral electronic indicator is approved for use with a maximum of 450 verification scale intervals.

1.2.1 Zero

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

The instrument has an initial zero-setting device with a nominal range of 3% of the maximum capacity of the instrument.

1.2.2 Display Check

A display check is initiated whenever power is applied.

1.3 Level Indicator (Figure 2)


Adjacent to the level indicator is a notice stating that THE MEASUREMENT MAY NOT BE CORRECT UNLESS THE INSTRUMENT IS LEVEL, or similar wording.

1.4 Verification/Certification Provision

Provision is made for a verification/certification mark to be provided.

1.5 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark	
Serial number	
NSC approval number	NSC No 6/9C/245
Accuracy class	
Maximum capacity	Max t or kg *
Minimum capacity	Min t or kg *
Verification scale interval	e = d = t or kg *

* Repeated in the vicinity of the reading face, if not already in that location.

TEST PROCEDURE No 6/9C/245

Instruments should be tested in accordance with any relevant tests specified in the Inspector's Handbook.

Maximum Permissible Errors at Verification/Certification

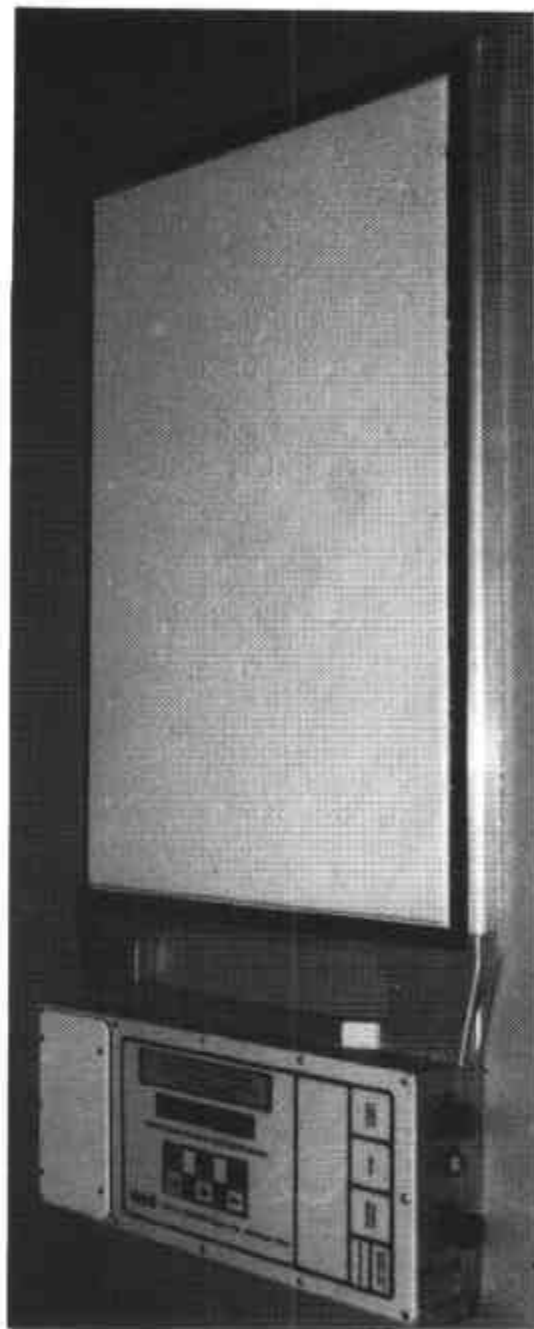
The maximum permissible errors for increasing and decreasing loads, expressed in terms of verification scale interval (e), with the instrument adjusted to zero within $\pm 0.25e$ at no load, are:

- $\pm 0.5e$ for loads from 0 to $50e$;
- $\pm 1.0e$ for loads over $50e$ up to $200e$; and
- $\pm 1.5e$ for loads over $200e$.

1. Load Test

Test loads are to be applied, using special fittings, increasing in at least 5 approximately-equal steps to maximum capacity, followed by decreasing loads in 5 approximately-equal steps to zero load.

FIGURE 6/9C/245 - 1



GEC Model LP400E Weighing Instrument

