

SACATOR CONTRACTOR CON



British Approvals Service for Electrical Equipment in Flammable Atmospheres

Certificate of Assurance

APPARATUS CERTIFICATE No 90Y4409

Issued to

BEKA ASSOCIATES LIMITED of Hitchin, Hertfordshire, SG5 2DD

THIS IS TO CERTIFY THAT A DIGITAL TOTLALISER TYPE BA334N

designed and constructed in accordance with the specification set out in the Schedule and the documents therein referred to, including any variation specified in the Schedule, complies with the requirements of BS 6941: 1988.

This Certificate is granted subject to the general conditions of the Electrical Equipment Certification Service and any additional conditions as may be prescribed.

This Certificate does not imply that the apparatus meets all statutory requirements in any particular industry or circumstance.

File No: EECS 0121/02/006

Code: Ex N II T4 $(T_{amb} = 60^{\circ}C)$ Report No: 90(n)484 dated: 15 March 1991



I M CLEARE DIRECTOR EECS 24 April 1991

Sheet 1/3

DW

RE-ISSUED FOR AMENDMENT 24 APRIL 1991



Electrical Equipment Certification Service

Health and Safety Executive
Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom
Tel: 0298 26211 Fax: 0298 79514 Telex: 668113 RLSD G

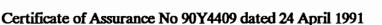






Schedule





APPARATUS

A Digital Totaliser Type BA334N is designed to count and display the number of pulses from a variety of input sources.

The apparatus comprises 3 printed circuit boards and a liquid crystal display all housed in an aluminium or plastic enclosure fitted with a polycarbonate window. Terminals 5 and 6 of the unit are supplied from an external source having a maximum supply voltage of 36 volts.

External electrical connections are made through two tapped holes. The installation of the external connections and plugging of any unused entry must be carried out in accordance with BS 5345: Part 7: 1979 and additionally must be capable of meeting the requirements of IP54 when fitted to the apparatus.

DRAWINGS

Number	Issue	Date	Description
CI334-02	2	Dec 1990	Modification record
Sheet 2 CI334-02	2	Dec 1990	Circuit diagram
Sheet 3	2	Dec 1330	Choun diagram
CI334-02 Sheets 4 & 5	2	Dec 1990	Parts list
CI334-02	2	Dec 1990	General assembly
Sheet 6 CI334-02	2	Dec 1990	Artwork PC6
Sheet 7	2	Dec 1990	Altwork PC0
CI334-02	2	Dec 1990	Artwork PC7
Sheet 8 CI334-02	2	Dec 1990	Artwork PC8
Sheet 9	2	D 1000	T -11 -1
CI334-02 Sheet 10	2	Dec 1990	Label details

VARIATION ONE To permit the following:

- 1. Modifications to the display printed circuit board and the deletion of capacitor C207.
- 2. The 8 digit Liquid crystal display to be replaced by a 4 digit liquid crystal display.



Certificate of Assurance No 90Y4409 dated 24 April 1991

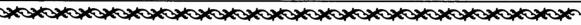
The apparatus having the above changes is designated a Digital Totaliser Type BA333N.

DRAWINGS

Number	Issue	Date	Description
CI333-02	2	Dec 1990	Modification record
Sheet 2	2	D 1000	C''t 1!
CI333-02 Sheet 3	2	Dec 1990	Circuit diagram
CI333-02	2	Dec 1990	Parts list
Sheets 4 & 5			
CI333-02	2	Dec 1990	General assembly
Sheet 6			
CI333-02	2	Dec 1990	Artwork PC6
Sheet 7			
CI333-02	2	Dec 1990	Artwork PC7
Sheet 8			
CI333-02	2	Dec 1990	Artwork PC9
Sheet 9			
CI333-02	2	Dec 1990	Label details
Sheet 10			



TO A CHARLAND A CHARLA





TO A CHARLO A CHARLO



British Approvals Service for Electrical Equipment in Flammable Atmospheres

Certificate of Assurance Variation

THIS IS TO CERTIFY THAT APPARATUS CERTIFICATE NO Ex 90Y4409

Held by BEKA ASSOCIATES LIMITED

of Hitchin, Herts, SG5 2DA

(formerly of Hitchin, Herts, SG5 2DD)

for the DIGITAL TOTALISER TYPE BA334N

is hereby extended to apply to the Apparatus conforming to the specification set out in the Schedules of the said Certificate but having any variation specified in the attached Schedule.

A copy of this Supplementary Certificate shall be attached to the original certificate.

File No: EECS 0121/02/006

Sheet 1/2

CERTIFICATE NO: Ex 90Y4409/1

LP









Electrical Equipment Certification Service

Health and Safety Executive
Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom
Tel: 0298 26211 Fax: 0298 79514 Telex: 668113 RLSD G

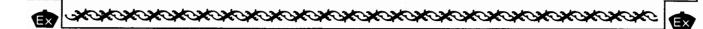








Schedule



Certificate of Assurance No Ex 90Y4409/1

VARIATION TWO To permit the removal of window clamps when window is sealed to the enclosure using an alternative adhesive, namely Dow Corning SILASTIC 744. This change affects the Digital Totaliser Type BA334N and BA333N.

This change does not affect the original safety assessment.

DRAWINGS

Number	Issue	Date	Description
CI334-02 Sheet 2	3	Nov 1994	Modification record, Type BA334N
CI334-02 Sheet 6	3	Nov 1994	General assembly, Type BA334N
CI333-02 Sheet 2	3	Nov 1994	Modification record, Type BA333N
CI333-02 Sheet 6	3	Nov 1994	General assembly, Type BA333N