



BASEEFA

British Approvals Service
for
Electrical Equipment
in
Flammable Atmospheres

Certificate of Assurance

APPARATUS CERTIFICATE NO Ex 87Y4139

Issued to BEKA ASSOCIATES LIMITED
of Hitchin, Herts

THIS IS TO CERTIFY THAT A BA304N 4/20 mA DIGITAL METER

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 4683 : Part 3 : 1972 and the BASEEFA Memorandum SM4683/3 dated July 1980 for Group II and Temperature Class T6 in an ambient temperature of 60°C.

This Certificate is granted subject to the general conditions of the British Approvals Service for Electrical Equipment in Flammable Atmospheres 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 : SFA 14/286/01

Test Report No : ERA Ref 3627/192
dated April 1987

Code : Ex N II T6
(Tamb = 60°C)



Certificate of Assurance

Schedule

NUMBER Ex 87Y4139

DATED 24 April 1987

APPARATUS

A BA304N 4/20mA DIGITAL METER is designed to display the current in a 4/20 mA dc signal loop.

The apparatus comprises an electronic circuit arranged on three printed circuit boards in a die-cast aluminium housing or alternatively a plastics enclosure. The terminals for external connections are located on the terminal pcb.

The enclosure provides a Degree of Protection of IP54.

External cable entry arrangements should maintain a Degree of Protection of IP54 and satisfy impact tests of 7Nm energy.

The maximum current through the Digital Meter is 20mA dc.

DRAWINGS

Number	Issue	Date	Description
CI304-002 Sheet 1 to 14	-	March 87	Certification Information



BASEEFA

British Approvals Service
for
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Flammable Atmospheres

Certificate of Assurance VARIATION

THIS IS TO CERTIFY THAT APPARATUS CERTIFICATE NO Ex 87Y4139

Issued to: **BEKA ASSOCIATES LIMITED**

of Hitchin, SG5 2DD

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

File : EECS 0121/03/001
(Formerly SFA 14/286/01)

CERTIFICATE NO. Ex 87Y4139/1
Sheet 1/2
1544/26



I M CLEARE
DIRECTOR EECS
22 January 1990

Certificate of Assurance

Schedule

NUMBER Ex 87Y4139/1

DATED 22 January 1990

VARIATION ONE

To permit minor changes to the electronic circuit.

DRAWINGS

Number	Issue	Date	Description
CI304-003 Sheets 1 to 6, 8 and 11	1	Dec 89	Certification Information

VARIATION TWO

To permit addition of square root extracting circuit thus forming a BA314N 4/20mA DIGITAL METER.

DRAWINGS

Number	Issue	Date	Description
CI304-003 Sheets 7,9 and 10	1	Dec 89	Certification Information



British Approvals Service for Electrical
Equipment in Flammable Atmospheres

Certificate of Assurance Variation

THIS IS TO CERTIFY THAT APPARATUS CERTIFICATE NO Ex 87Y4139

Held by **BEKA ASSOCIATES LIMITED**
of Hitchin, Herts, SG5 2DA
(formerly of Hitchin, Herts, SG5 2DD)

for the **BA304N 4/20mA DIGITAL METER**

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 0121/02/011**
(was EECS 0121/03/001)

Sheet 1/2

CERTIFICATE NO: Ex 87Y4139/2

LP

This certificate is issued under NACCB accreditation No. 020

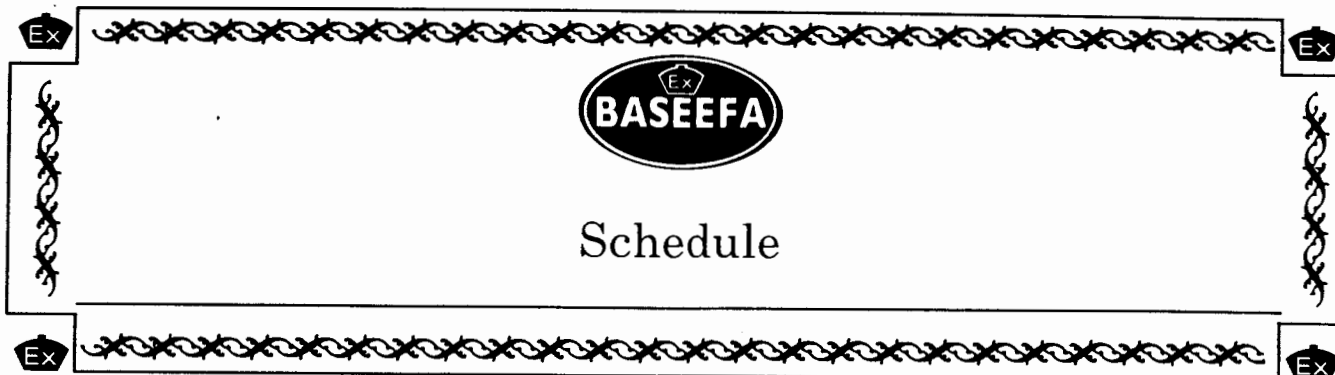


Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom
Tel: 0298 26211 Fax: 0298 79514 Telex: 668113 RLSD G



I M CLEARE
DIRECTOR EECS
28 February 1995





Certificate of Assurance No Ex 87Y4139/2

VARIATION THREE

To permit the following changes to the BA304N 4/20mA Digital Meter:

- i) Removal of window clamps when window is sealed to the enclosure using an alternative adhesive, namely Dow Corning SILASTIC 744.
- ii) Removal of the description of the Transformer T1.

These changes do not affect the original safety assessment.

DRAWINGS

Number	Issue	Date	Description
CI304-002 Sheets 2, 4 & 7	2	Nov 94	Certification information for BA304N