



EC-TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC

3 EC-Type Examination Certificate Number

BAS00ATEX7064

- 4 Equipment or Protective System: MOBREY CONTROL UNIT TYPE MCU90*WH-A
- 5 Manufacturer: SOLARTRON MOBREY LIMITED
- 6 Address: 158 Edinburgh Avenue, Slough, Berkshire, SL1 4UE
- 7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- The Electrical Equipment Certification Service, notified body number 600 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No

99(C)1053 dated 20 November 2000

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 + Amd 1 and 2

EN 50020: 1994

except in respect of those requirements listed at item 18 of the Schedule.

- If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.
- 12 The marking of the equipment or protective system shall include the following:-

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[EEx ia] $\Pi C (-40^{\circ}C \le T_a \le 55^{\circ}C)$

This certificate may only be reproduced in its entirety and without any change, schedule included.

File No: EECS 0131/02/039

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire, SK17 9JN, United Kingdom
Tel: 01298 28000 Fax: 01298 28244



I M CLEARE DIRECTOR 20 November 2000





13

Schedule

14

EC-TYPE EXAMINATION CERTIFICATE Nº BAS00ATEX7064

15 **Description of Equipment or Protective System**

Terminals 4-30

Loop Powered Hazardous Area Transmitter Mode

Schedule EC-TYPE EXAMINATION CERTIFICATE N° BASOOATEX7064 Description of Equipment or Protective System The Mobrey Control Unit Type MCU90*WH-A is mains powered apparatus for installation in non hazardous (safe) area and is intended for connection to transmitters located in a hazardous area. It can be used in one of two modes, either loop powered (transmitter powered from control unit) externally powered (transmitter separately powered). It comprises a plastic enclosure housing a printed circuit board (p.c.b.) assembly. External connections are made via terminals mounted on the p.c.b., these terminals being located in separate partitioned section of the enclosure provided with its own lid. Cable entry into this termin section is made via cable glands mounted in the enclosure wall. Terminals 4-30 Um = 250V a. Loop Powered Hazardous Area Transmitter Mode Terminal 1 (24V) w.r.t. Terminal 2 (In) and Terminal 1 (24V) w.r.t. Terminal 3 (Earth) Un = 28V Un = 0 Ln = 120mA Pn = 0.82W Ln = 0.22mH Cn = 0.6mF The capacitance and either the inductance or the inductance to resistance ratio (L/R) of the location connected to the terminals must not exceed the following values: GROUP CAPACITANCE INDUCTANCE OR L/R RATIO in mH in mHohm HIC *0.082uF 1.2mH 1.2mH 42uH			ECS CAMBRE SERVE		
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externally powered (transmitter separately powered). It comprises a plastic enclosure housing a printed circuit board (p.c.b.) assembly. External connections are made via terminals mounted on the p.c.b., these terminals being located in exparate partitioned section of the enclosure provided with its own lid. Cable entry into this terminal ection is made via cable glands mounted in the enclosure wall. Forminals 4-30 Um = 250V Loop Powered Hazardous Area Transmitter Mode Forminal 1 (24V) w.r.t. Terminal 2 (Im) and Terminal 1 (24V) w.r.t. Terminal 3 (Earth) Un = 28V Un = 0 Earth Un = 0 Earth Un = 0 Earth Capacitance and either the inductance or the inductance to resistance ratio (L/R) of the location of the terminals must not exceed the following values: GROUP CAPACITANCE INDUCTANCE OR L/R RATIO in µH/ohm	on hazardous (s	afe) area and is intended	for connection to transm	itters located in a l	nazardous area.
External connections are made via terminals mounted on the p.c.b., these terminals being located in eparate partitioned section of the enclosure provided with its own lid. Cable entry into this terminal is made via cable glands mounted in the enclosure wall. Ferminals 4-30 Um = 250V Loop Powered Hazardous Area Transmitter Mode Ferminal 1 (24V) w.r.t. Terminal 2 (Im) and Terminal 1 (24V) w.r.t. Terminal 3 (Earth) Un = 0 Un = 120mA Un = 0.82W Un = 0.2mH Un = 0.6nF The capacitance and either the inductance or the inductance to resistance ratio (L/R) of the location of the terminals must not exceed the following values: GROUP CAPACITANCE INDUCTANCE OR L/R RATIO in µH/ohm				itter powered from	control unit) or
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Terminal 1 (24V) w.r.t. Terminal 2 (I _{IN}) and Terminal 1 (24V) w.r.t. Terminal 3 (Earth) U _i = 28V U _i = 0 0 = 120mA 0 = 0.82W 0 = 0.2mH 0 = 0.6nF The capacitance and either the inductance or the inductance to resistance ratio (L/R) of the local connected to the terminals must not exceed the following values: GROUP CAPACITANCE INDUCTANCE OR L/R RATIO in μH/ohm	$J_m = 250 \text{V}$				
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GROUP CAPACITANCE INDUCTANCE OR L/R RATIO in µF in mH in µH/ohm	$J_a = 28V$ $a_0 = 120mA$ $a_0 = 0.82W$ $a_1 = 0.2mH$				
in µF in mH in µH/ohm	he capacitance onnected to the	and either the inductan terminals must not excee	ce or the inductance to d the following values:	resistance ratio (L/R) of the load
	GROUP				
	IIC	*0.082μF	1.2mH		42μΗ
IIB 0.65μF 10.9mH 172μH	ПВ	0.65µF	10.9mH		172µH
IIA 2.15μF 21.9mH 346μH	IIA	2.15μ F	21.9mH		346µH

^{*} of which the total C of the hazardous area apparatus connected must not exceed 0.020µF





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(3	Schedule	
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1.7		
	b. External Powered Hazardous Area Transmitter Mod	le
	O, <u>PAROTHALLOWOLOU SINGULATION STORY STREET</u>	
	Terminal 2 (I _{IN}) w.r.t. Terminal 3 (Earth)	
	(no connection to Terminal 1 (24V) must be made)	
	$U_0 = 6.51V$ (capacitance charging only - see below)	$U_i = 30V$
	$I_0 = 0.51 \text{ V}$ (capacitance charging only - see selow)	$I_i = 120 \text{mA}$
	$P_c = 0$	
	$P_{o} = 0$ $L_{i} = 0.1 \text{mH}$	
	$P_o = 0$ $L_i = 0.1 \text{mH}$ $C_i = 0.6 \text{nF}$	cated as a 6.51V source. The 6.51V
	$P_{o} = 0$ $L_{i} = 0.1 \text{mH}$	pacitive load across these terminals could blocking diodes. This voltage does no
16	$\begin{split} P_c &= 0 \\ L_i &= 0.1 \text{mH} \\ C_i &= 0.6 \text{nF} \end{split}$ Terminal 2 (I_{IN}) w.r.t. Terminal 3 (Earth) must be traconsidered as being the theoretical maximum to which a cabecome charged through leakage through internal series	pacitive load across these terminals could blocking diodes. This voltage does no
16	$\begin{split} P_c &= 0 \\ L_i &= 0.1 \text{mH} \\ C_i &= 0.6 \text{nF} \end{split}$ Terminal 2 (I_{IN}) w.r.t. Terminal 3 (Earth) must be traconsidered as being the theoretical maximum to which a cabecome charged through leakage through internal series contribute to the short circuit sparking risk of any external series. Report No.	pacitive load across these terminals could blocking diodes. This voltage does no
•	$P_c=0$ $L_i=0.1 \mathrm{mH}$ $C_i=0.6 \mathrm{nF}$ Terminal 2 (I_{IN}) w.r.t. Terminal 3 (Earth) must be traconsidered as being the theoretical maximum to which a cabecome charged through leakage through internal series contribute to the short circuit sparking risk of any external series Report No. 99(C)1053	pacitive load across these terminals could blocking diodes. This voltage does no
	$\begin{split} P_c &= 0 \\ L_i &= 0.1 \text{mH} \\ C_i &= 0.6 \text{nF} \end{split}$ Terminal 2 (I_{IN}) w.r.t. Terminal 3 (Earth) must be traconsidered as being the theoretical maximum to which a cabecome charged through leakage through internal series contribute to the short circuit sparking risk of any external series. Report No.	pacitive load across these terminals could blocking diodes. This voltage does no
•	$P_c=0$ $L_i=0.1 \mathrm{mH}$ $C_i=0.6 \mathrm{nF}$ Terminal 2 (I_{IN}) w.r.t. Terminal 3 (Earth) must be traconsidered as being the theoretical maximum to which a cabecome charged through leakage through internal series contribute to the short circuit sparking risk of any external series Report No. 99(C)1053	pacitive load across these terminals could blocking diodes. This voltage does no
17	$P_c=0$ $L_i=0.1 \mathrm{mH}$ $C_i=0.6 \mathrm{nF}$ Terminal 2 (I_{IN}) w.r.t. Terminal 3 (Earth) must be the considered as being the theoretical maximum to which a called become charged through leakage through internal series contribute to the short circuit sparking risk of any external series Report No. 99(C)1053 Special Conditions For Safe Use	pacitive load across these terminals could blocking diodes. This voltage does no
17	$P_c=0$ $L_i=0.1 \mathrm{mH}$ $C_i=0.6 \mathrm{nF}$ Terminal 2 (I_{IN}) w.r.t. Terminal 3 (Earth) must be the considered as being the theoretical maximum to which a call become charged through leakage through internal series contribute to the short circuit sparking risk of any external series Report No. 99(C)1053 Special Conditions For Safe Use	pacitive load across these terminals could blocking diodes. This voltage does no
17	$P_c=0$ $L_i=0.1 \mathrm{mH}$ $C_i=0.6 \mathrm{nF}$ Terminal 2 (I_{IN}) w.r.t. Terminal 3 (Earth) must be the considered as being the theoretical maximum to which a called become charged through leakage through internal series contribute to the short circuit sparking risk of any external series Report No. 99(C)1053 Special Conditions For Safe Use	pacitive load across these terminals could blocking diodes. This voltage does not be connected to these terminals.
17	P _c = 0 L _i = 0.1mH C _i = 0.6nF Terminal 2 (I _{IN}) w.r.t. Terminal 3 (Earth) must be treestonsidered as being the theoretical maximum to which a cabecome charged through leakage through internal series contribute to the short circuit sparking risk of any external series report No. 99(C)1053 Special Conditions For Safe Use None Essential Health and Safety Requirements Essential Health & Safety Requirements not covered Subject	pacitive load across these terminals could blocking diodes. This voltage does not be connected to these terminals. by Standards listed at (9) Compliance
18 Clause 1.1.3	P _c = 0 L _i = 0.1mH C _i = 0.6nF Terminal 2 (I _{IN}) w.r.t. Terminal 3 (Earth) must be the considered as being the theoretical maximum to which a called become charged through leakage through internal series contribute to the short circuit sparking risk of any external series. Report No. 99(C)1053 Special Conditions For Safe Use None Essential Health and Safety Requirements Essential Health & Safety Requirements not covered Subject Changes in characteristics of materials and combinations thereof	by Standards listed at (9) Compliance see report
Clause 1.1.3 1.2.2	P _c = 0 L _i = 0.1mH C _i = 0.6nF Terminal 2 (I _{IN}) w.r.t. Terminal 3 (Earth) must be transidered as being the theoretical maximum to which a cabecome charged through leakage through internal series contribute to the short circuit sparking risk of any external series contribute to the short circuit sparking risk of any external series contribute to the short circuit sparking risk of any external series (Conditions For Safe Use None Essential Health and Safety Requirements Essential Health & Safety Requirements not covered Subject Changes in characteristics of materials and combinations thereof Components for incorporation or replacement	by Standards listed at (9) Compliance see report
Clause 1.1.3 1.2.2 1.2.5	P _c = 0 L _i = 0.1mH C _i = 0.6nF Terminal 2 (I _{IN}) w.r.t. Terminal 3 (Earth) must be to considered as being the theoretical maximum to which a cabecome charged through leakage through internal series contribute to the short circuit sparking risk of any external series (Contribute to the short circuit sparking risk of any external series) Report No. 99(C)1053 Special Conditions For Safe Use None Essential Health and Safety Requirements Essential Health & Safety Requirements not covered (Subject) Changes in characteristics of materials and combinations thereof (Components for incorporation or replacement) Additional means of protection	by Standards listed at (9) Compliance see report see report
Clause 1.1.3 1.2.2	P _c = 0 L _i = 0.1mH C _i = 0.6nF Terminal 2 (I _{IN}) w.r.t. Terminal 3 (Earth) must be transidered as being the theoretical maximum to which a cabecome charged through leakage through internal series contribute to the short circuit sparking risk of any external series contribute to the short circuit sparking risk of any external series contribute to the short circuit sparking risk of any external series (Conditions For Safe Use None Essential Health and Safety Requirements Essential Health & Safety Requirements not covered Subject Changes in characteristics of materials and combinations thereof Components for incorporation or replacement	by Standards listed at (9) Compliance see report





13 Schedule

EC-TYPE EXAMINATION CERTIFICATE N° BAS00ATEX7064

19 DRAWINGS

14

<u>Number</u>	<u>Issue</u>	<u>Date</u>	Description
71097/977	3	17.10.00	Circuit
71095/978	2	26.07.00	P.C.B. Assembly Details
71097/980	4	15.11.00	General Assembly and Certification Label Details

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BASEEFA List Keywords

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1 SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE

- Equipment or Protective System Intended for use in Potentially explosive atmospheres

 Directive 94/9/EC
- 3 Supplementary EC-Type Examination Certificate Number: BAS00ATEX7064/1
- 4 Equipment or Protective System: MOBREY CONTROL UNIT TYPE MCU90*WH-A
- 5 Manufacturer: SOLARTRON MOBREY LIMITED
- 6 Address: Slough, Berkshire, SL1 4UE
- This supplementary certificate extends EC-Type Examination Certificate No. BAS00ATEX7064 to apply to equipment or protective systems designed and constructed in accordance with the specification set out in the Schedule of the said Certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

This certificate may only be reproduced in its entirety and without any change, schedule included.

File No: EECS 0131/02/039

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This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



Electrical Equipment Certification Service
Health and Safety Executive
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I M CLEARE DIRECTOR 27 November 2001



13 Schedule

14 SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE Nº BASOOATEX7064/1

Description of the Variation to the Equipment or Protective System

VARIATION 1.1

- 1. To permit use of a new printed circuit board assembly with modified layout and track work.
- 2. Change of apparatus type identification to MCU*** W*-** **.

Report No.

01(CI)0912 dated 22 November 2001

Special Conditions For Safe Use

None

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

Number	Sheet	Issue	Date	Description
71097/977	-	4	13,06.01	Circuit
71097/978	-	4	06,11.01	PCB Assembly Details
71097/980	-	5	13.06.01	General Assembly and Certification Label Details

This certificate may only be reproduced in its entirety and without any change, schedule included.